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1. Introduction

The collapse of the East-West confrontation regime shifted the national interests of the major powers from military capability to economic competitiveness. In the coming age, China will have in this context much bearings, for its size, upon the economic security of the world, in spite of counter arguments like the one by Gerald Segal [5]. The decision makers of the China's government seem to have a clear understanding of their situation that the future investment required for the smooth development of their economy is both a lure to potential foreign investors and quite a burden to themselves at the same time. If China fails in maintaining a sufficiently high rate of growth, it will have to face severe social and political instability in the domestic arena, and cause proportional insecurity in the international economy.

Keeping such a perspective in mind, this paper first presents an estimation of the required capital investment for China to attain a per capita income of, say \$3,000 in the year 2025 vis-à-vis the changes in the industrial sector composition. Then the paper discusses its implication on the roles of the concerned governments to facilitate a desirable economic environment in the international arena, together with a sketch of the strategy to be taken for the implementation of the development-cuminterdependent regime in the new world community. The proposed regime is then placed

in a historical perspective to illustrate its legitimacy in the context of the world welfare maximization, i.e., a shift from free trade to freer production factor mobility across the national borders

Necessary Conditions for Long-Term Development of China's Economy Derived with a PERT- Econometric Model

Capital investment is the single most important determinant of long-term economic development. China's economy is no exception to this empirically established proposition. Without doubt China's development strategy will henceforth focus on securing smooth capital financing. What amount of investment rate will be needed to support its development to three thousand dollars per capita, say, from the initial \$640 in 1995 in thirty years? How will the industrial composition change over this period?

We used a PERT-econometric model of the People's Republic of China (PRC) economy to answer these questions. For the concept, examples, and applications of the PERT-econometric model, see the references shown in note i.

The result shows that in total the required capital investment will come up to 22 trillion U.S. dollars. The absolute size of this economy at the targeted end year will be US\$4.6 trillion, which is comparable to the current Japanese economy.

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This derivation is based on several assumptions:

- 1) The capital coefficients in the respective industrial sectors will remain the same as in 1995 when the initial conditions are set for this calculation;
- 2) The prices of the industrial products are doubled and those of primary products are halved for the initial year so as to adjust the price system to internationally comparable basis;
- 3) The overall average depreciation rate is fixed at five percent in the standard simulation case, though it is subjected to variation in the sensitivity test specifically with respect to capital requirement calculation.

Other minor assumptions, such as the population growth rate, are shown in the assignment of the relevant parameter values in the computer output report format in the Appendix.

Main findings from the model operation are as follows. Firstly the average real GDP growth rate required to realize the preset object of attaining \$3,000 in 30 years from 1995 is over 6.5%, which is only slightly lower than the targeted growth rate of 7.2% in the current 2,000-2,010 period Long-Term Development Plan of the PRC. Secondly, the industrial sector composition changes dramatically; the agriculture, forestry and fishery sector declines to only 6.5% in 2025 from the initial 20.6. The share of the manufacturing sector markedly increases from 33.5% to 51 in the same period, and that of financial and realty almost doubles from 3.2 to 5.9. The tertiary sector as a whole, inclusive of energy and public utilities, other services and government, does not change much, though, keeping roughly one third of the GDP. Notable changes take place in the energy sector (electricity, gas, and water supply) whose share almost triples from the initial 3.1% to 8.9, and in transportation and telecommunications that declines from 5.6 to 3.5%. As a consequence, the overall share of the

social overhead capital (SOC) services increases to 12.4% from 8.6, which will certainly places much load to the required capital investment. In most of the successful Asian economies, the increase in the SOC services share has been 2 to 4%. The case of PRC is placed at the highest in the required accumulation of SOC.

The assumed capital-output ratio (COR) for the agriculture, fishery and forestry is 1.76, which is the smallest of all, while those for manufacturing, energy and public utilities, and transportation and telecommunications are 2.25, 7.75 and 2.78, respectively. There is a strong reason to believe that the COR for the transportation sector is an underestimation because this parameter is based upon the performance in the past when the transportation investment was concentrated on relatively cheaper road construction. The future investment will be directed to railways, air transportation facilities and seaports that are much more capital intensive than roads. In the current Five-Year Development Plan, the expected growth rate of the transportation investment is only 4.5% while the real GDP growth rate is 8%.

The aggregate COR in the future will become greater, partly because of increasing shares of the high-COR sectors as explained above, and partly because of the necessary adjustments in the COR for certain sectors like the transportation sector. These may be summarized as a product mix adjustment within and inter sectors.

The required capital investment for this development process can only be supported with an investment-GDP ratio (investment rate) greater than 30.9%. The feasibility of this investment rate may be judged by the movement of capital fund supply from three sources: domestic savings, foreign direct investment (FDI), and international governmental aids through multilateral organizations such as the World Bank, or the Asian

Development Bank. The domestic saving rate may become lower, at least in an early stage of the planning period, because of possible higher propensity to consume triggered by demonstration effect. An advantage of the current PRC is that it has a reliable overseas Chinese investors to supply a significant portion of the total investment, as long as the investment environment remains favorable to foreign investment. These feasibility conditions will render tremendous impact upon the foreign policies of the People's Republic of China. This aspect will be analyzed later in this paper.

The above-described results depend on several key assumptions. First of all, the assumed depreciation rate of 5% in the above-described standard case is not small when compared with that in other developing countries. However, the future China's depreciation rate may turn out to be higher in the due process of development. An example of such possibilities is the well-noted destruction of the traditional sectors through modernization of the basic production processes. In PRC, the state-owned big enterprises are still using, especially in the northeastern part of it, remains of old heavy industrial capital facilities that are inevitable to be exposed to severe market competition and consequentially removed from the production structure. If the depreciation rate becomes higher by one percent to make it 6% instead, for instance, the required investment rate becomes 32.5% or 2.5% higher than that in the case of 5%. These will make the necessary total investment to be over \$21 trillion.

In addition, the assumed macro COR of 2.6 to 2.8 depending on the simulation case, is markedly lower than those in most of the other Asian economies where usually it is around 3.5 or even higher. In view of the PRC economy transforming itself into an internationally comparable structure due to ever growing

globalization of its economic transactions, industrial technologies will converge, more or less, to international standards, the COR will tend to be much higher than that assumed in the model This will make the required simulation. investment higher in proportion to the increasing COR. On the other hand, COR tends to decline at a certain development stage due to increasing efficiency. This will lessen the investment load considerably, although this aspect is incorporated into the present model analyses.

A critical issue in the development of the Chinese economy will be labor absorption capacity. Although our model has not incorporated the labor coefficients yet, a separate econometric model of the PRC economyⁱⁱⁱ indicates that the current mode of development lacks the labor absorption capacity to match the newly incoming young labor force and causes increasing unemployment, disguised or not. Thus, the changes in sectoral composition in favor of manufacturing and other modern sectors can only be accommodated by intra-sectoral labor intensive technological changes. Accelerated high-tech-led industrialization may create labor market instability, sooner or later.

The most important condition for sustainable long-term development of the Chinese economy derived from the model simulation seems, thus, to be an uninterrupted inflow of capital. This point has been expressed by Chinese government officials repeatedly, as Mr. Li remarked at the Twentieth China-Japanese Annual Conference on Economy and Knowledge held in Beijing in 1998.

In the Ninth Five Year Plan, the expected investment rate is 30%, which is almost equivalent to the necessary condition derived by our model. This implies that a considerable portion of the capital fund must be supplied from foreign entities. As a matter of fact, the local government authorities expressed their expectation, or a hope, that around 30% of the total investment in their

respective development plans will be financed by FDI.

3. Roles of Government in the Long-Term Chinese Economic Development

Rationale of Governments' Initiatives

It will be indispensable, for China to meet the necessary conditions, that the Chinese government will consistently adopt friendly international relations in the international arena, and maintain social and political stability in the domestic arena that in turn indispensably depends upon smooth growth. As a matter of fact, the Chinese government seems to have been trying to establish favorable economic environment within and without. The China's government has to provide a favorable environment for FDI but also should be met by foreign partners' cooperation, for, if the Chinese development will be successful, the capital investment burden of twenty trillion U.S. dollars to China will be at the same time a remarkable investment opportunity to foreign investors as well. Furthermore, smooth development of the Chinese economy will be a prerequisite, in turn, of economic security of the concerned countries. This mutual potential benefit orchestrated deserves international cooperation involving all the open economies of the world. A logical extension of such a strategy will be the institutionalization of East Asia, especially the Northeast Asian sub-region. Such an idea in the political arena has already been proposed as the Northeast Asian Regional Forum. Economic advantages of international cooperation in this subregion have been claimed in broad terms on many occasions, and concretely regarding specific fields of activities in regional development studies.iv The East Asian region will benefit

from the sovereign governments' initiative to establish a comprehensive international institution or specific institutions to provide bases of international cooperation. There are observed a lot of economic potential and it is only the undeniable will of the governments that is lacking in the accelerated development of this regional economy.

Strategy of International Cooperation

In view of economic complementarities spreading over a multiple number of countries in this subregion, vis-à-vis stumbling blocks of narrow and short-sighted view of national interests in implementing cooperation among the concerned countries, the following measures are strongly recommendable to the sovereign governments comprising this subregion. The concerned governments should:

- Agree upon the principle of developmentcum-interdependent mechanism as the leading concept of forming the new international community in the coming 21st century. The ideal of this strategy is to mitigate economic poverty and inequality causing regional conflicts. It should be noted that most of the military measures failed in realizing the intended stability.
- 2) Take actions to implement subregional standard of international economic transactions, including cross-border procedures, FDI regulations, and the legal status of special economic zones within this subregion to provide reliable investment environment.
- 3) Establish an international institution to cope with new threats, including drug transactions and organizational crimes, to strengthen mutual securities.
- 4) Introduce a subregional accounting

monetary unit to provide economic actors in this region with financial security. Conversion of it into a tangible money is not discouraged, but the idea of implementing the accounting monetary unit stems only from the consideration of feasibility and acceleration of the shared sense of community.

General Observations in Historical Perspective

The twentieth world has gone through marked liberalization and expansion international trade of products, being led by the Ricardian theorem of 'free trade maximizes the world welfare.' The collapse of the basic structure of East-West military confrontation toward the end of the twentieth century will drastically change the basic structure of the 21st world economy, for it has come to enable the sovereign countries exploit to otherwise unavailable external economies through freer access to foreign production factors. This will promote international cooperation for materializing complementarities of production factors endowed across the national borders, though not fully, but at least at a greater degree. The new century will be led, therefore, by the spirit of the Le Chatelier principle to promote international transactions of productive factors, tangible or intangible, including knowledge, technologies, and other resources. It will become the primary role of the central governments, therefore, to provide adequate institutional, legal, technical, and even more of philosophical foundation toward this end.

Appendix. Development Path of the China's Economy to \$3,000 Per Capita in 2,25

--- PERT-Econometric Model Projection ---

The projection of the China's economic development was run as shown in the following table to derive the required investment, together with the changes in the sector composition. For the explanation of the PERT-econometric model, see the references [2]. The notation is given below.

Notations for the Appendix

YR\$95 :GDP in the U.S. dollars at '95 prices million dollars);

N : Population (million persons);

PCY: per capita GDP;

KLGD governmental long-term capital loans outstanding;

Sxxx : GDP share of sector xxx; AYxxx: total-controlled sectoral GDP;

Krqxxx: capital stock requirement in sector xxx;

Krg: total capital requirement;

K: capital stock made available by the preset investment rate; d: depreciation;

I:investment; and,

EOCSUM: investment on the economic overhead capital services, where xxx's are the sector code as follows:

Min: mining; aff: agriculture, fishery, and forestry; mnf: manufacturing; con: construction, egw: electricity, gas, and water supply; tc: telecommunications and transportation, trade: trade, hotels and restaurants; br: banking and real estate; gov: government; others: others; ind: industrial sectors; nonp: non-primary sectors.

References

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- ii Due to relative price adjustment, the industrial compositions differ from the official statistics. The shares of the primary sectors are much higher, and those of the industrial sectors are fairly smaller than the official statistics indicate.
- iii Makoto Nobukuni, and others, "Basic Macro Balances on Chenese Economy in the Year 2,000; Conclusions Based on an Econometric Forecast," read at the World Conference of the International Regional Science Association, Tokyo, May 1996.
- iv See Nobukuni, Makoto, and K. Kawamura, "Optimum Transportation Program for Northeast China Using Tumen Area Sea Ports: An Assessment of International Cooperation Using Le Chatelier Principle," <u>Regional Studies</u>, Vol. 28, No.1, Regional Science Association, Japan, 1998.

Table. PRC Economy Development Path to \$3,000 Per Capita in 2,025 ---PERT-Econometric Model Projection---

Area and sqr/ 3098.387 Wnorm : 0.140 I/Y=0.32 PCY_ey : 3000.0 d(%)=5.0

Growth of N (%): 0.80 Growth of Ymin (%): 3.00 Growth of KLGD (%): 4.00 Growth of YR85D (%): 6.50

<u></u>		(,										
step	Year	YR85D	91price	AF	N	PCY	KLGD	Smin	Saff	Smnf	Scon	Segw
0	1995	697612	697612	1.000	1211.2	576	118090	5.19	20.59	33.54	6.56	3.07
1	1996	742952	745729	0.996	1220.9	609	122814	5.00	19.80	34.24	6.65	3.23
2	1997	791239	797658	0.992	1230.6	643	127726	4.82	19.04	34.94	6.74	3.39
3	1998	842665	853711	0.987	1240.5	679	132835	4.64	18.30	35.63	6.82	3.57
4	1999	897433	914226	0.982	1250.4	718	138149	4.46	17.58	36.31	6.90	3.74
5	2000	955760	979568	0.976	1260.4	758	143675	4.29	16.89	36.99	6.96	3.93
6	2001	1017878	1050136	0.969	1270.4	801	149422	4.12	16.22	37.65	7.02	4.12
7	2002	1084034	1126358	0.962	1280.6	847	155398	3.96	15.57	38.32	7.07	4.32
8	2003	1154489	1208701	0.955	1290.8	894 945	161614	3.80 3.64	14.95 14.34	38.97 39.61	7.12 7.15	4.53 4.74
9 10	2004 2005	1229524 1309435	1297672 1393819	0.947 0.939	1301.1 1311.5	998	168079 174802	3.49	13.76	40.25	7.18	4.97
11	2005	1394540	1497738	0.933	1322.0	1055	181794	3.35	13.19	40.88	7.10	5.20
12	2007	1485176	1610077	0.922	1332.6	1115	189066	3.21	12.65	41.51	7.21	5.44
13	2008	1581703	1731536	0.913	1343.2	1178	196629	3.07	12.13	42.12	7.22	5.68
14	2009	1684503	1862880	0.904	1354.0	1244	204494	2.94	11.62	42.73	7.22	5.94
15	2010	1793985	2004935	0.895	1364.8	1314	212673	2.81	11.13	43.33	7.21	6.21
16	2011	1910583	2158604	0.885	1375.7	1389	221180	2.69	10.66	43.93	7.20	6.48
17	2012	2034759	2324863	0.875	1386.7	1467	230028	2.58	10.21	44.51	7.18	6.77
18	2013	2167005	2504777	0.865	1397.7	1550	239229	2.46	9.77	45.09	7.16	7.06
19	2014	2307846	2699505	0.855	1408.9	1638	248798	2.35	9.35	45.66	7.13	7.37
20	2015	2457841	2910305	0.845	1420.2	1731	258750	2.25	8.94	46.23	7.09	7.69
21	2016	2617585	3138549	0.834	1431.5	1829	269100	2.15	8.55	46.78	7.05	8.02
22	2017	2787712	3385733	0.823	1443.0	1932	279864	2.05	8.18	47.33	7.00	8.36
23	2018 2019	2968895 3161854	3653487 3943589	0.813 0.802	1454.5 1466.1	2041 2157	291058 302701	1.96 1.87	7.81 7.47	47.87 48.40	6.95 6.89	8.71 9.07
24 25	2019	3367355	4257982	0.802	1477.8	2279	314809	1.78	7.13	48.93	6.84	9.45
26	2021	3586211	4598787	0.780	1489.6	2407	327401	1.70	6.81	49.44	6.77	9.84
27	2022	3819292	4968330	0.769	1501.5	2544	340497	1.62	6.50	49.95	6.70	10.24
28	2023	4067521	5369153	0.758	1513.5	2687	354117	1.54	6.20	50.44	6.63	10.65
29	2024	4331884	5804047	0.746	1525.6	2839	368282	1.47	5.91	50.93	6.56	11.08
30	2025	4613429	6276076	0.735	1537.8	3000	383013	1.40	5.64	51.40	6.48	11.52
step	Year	Stc	Strade	Sbr	Sgov	Sothers	Sind	Snonp	Snaff	Ymin	Yaff	Ymnf
0	1995	5.56	8.74	3.22	3.29	10.25	57.46	74.22	79.41	36224	143604	233976
1	1996	5.49	8.63	3.29	3.24	10.42	58.24	75.20	80.20	37311	147649	255361
2	1997	5.43	8.50	3.36	3.20	10.58	59.01	76.14	80.96	38430	151852	278700
3	1998	5.36	8.38	3.44	3.15	10.72	59.76	77.06	81.70	39583	156217	304172
4	1999	5.29	8.25	3.51	3.10	10.84	60.50	77.96	82.42	40770	160750	331973
5	2000	5.22	8.13	3.58	3.05	10.96	61.23	78.82	83.11	41994	165457	362314
6	2001	5.15	8.00	3.66	3.00	11.06	61.95	79.66	83.78	43253	170342	395429
7	2002	5.07	7.86	3.73	2.95	11.14	62.65	80.47	84.43	44551	175411	431570
. 8	2003	5.00	7.73	3.81	2.90	11.21	63.35	81.26	85.05	45887	180669	471014
9	2004	4.92	7.60	3.88	2.85	11.26	64.03	82.02 82.75	85.66	47264	186120	514063 561047
10 11	2005 2006	4.84 4.77	7.47 7.33	3.95 4.03	2.79 2.74	11.29 11.31	64.71 65.38	83.46	86.24 86.81	48682 50142	191771 197625	612325
12	2007	4.69	7.33 7.20	4.03	2.69	11.31	66.04	84.14	87.35	51647	203687	668290
13	2007	4.61	7.26	4.18	2.64	11.29	66.69	84.80	87.87	53196	209963	729370
14	2009	4.53	6.93	4.25	2.58	11.26	67.35	85.44	88.38	54792	216457	796032
15	2010	4.45	6.79	4.33	2.53	11.20	67.99	86.05	88.87	56436	223174	868787
16	2011	4.36	6.66	4.41	2.48	11.13	68.63	86.65	89.34	58129	230118	948191
17	2012	4.28	6.53	4.48	2.43	11.04	69.27	87.22	89.79	59873	237294	1034853
1.8	2013	4.20	6.39	4.56	2.37	10,93	69.91	87.77	90.23	61669	244706	1129436
19	2014	4.12	6.26	4.63	2.32	10.80	70.54	88.30	90.65	63519	252359	1232663
20	2015	4.04	6.13	4.71	2.27	10.65	71.17	88.81	91.06	65425	260258	1345325
21	2016	3.96	6.00	4.79	2.22	10.48	71.81	89.30	91.45	67387	268406	1468284
22	2017	3.88	5.87	4.87	2.17	10.30	72.44	89.77	91.82	69409	276810	1602480
23	2018	3.80	5.74	4.95	2.12	10.09	73.07	90.23	92.19	71491	285473	1748942
24	2019	3.73	5.61	5.03	2.07	9.86	73.71	90.67	92.53	73636	294402	1908791
25	2020	3.65	5.49	5.11	2.02	9.62	74.34	91.09 91.49	92.87 93.19	75845 78120	303601 313077	2083249 2273651
26 27	2021	3.57	5.36 5.24	5.19 5.27	1.98	9.35 9.07	74.98 75.62	91.49 91.88	93.19	78120 80464	322838	2481457
27	2022	3.49	5.24	5.27	1.93							
20	2022	212	5 1 2	5 25	1 99	X / /	16 26	9226	93 80	8287X	337840	2/08254
28 29	2023	3.42 3.34	5.12 5.00	5.35 5.43	1.88 1.83	8.77 8.45	76.26 76.90	92.26 92.62	93.80 94.09	82878 85364	332890 343243	2708254 2955781
28 29 30	2023 2024 2025	3.42 3.34 3.27	5.12 5.00 4.88	5.35 5.43 5.51	1.88 1.83 1.79	8.77 8.45 8.11	76.26 76.90 77.55	92.26 92.62 92.96	93.80 94.09 94.36	82878 85364 87925	343243 353907	2708254 2955781 3225931

step	Year	Ycon	Yegw	Ytc	Ytrade	Ybr	Ygov	Yothers	Yind	AYmin	AYaff	AYmnf
0	1995	45736	21412	38754	61000	22441	22931	71534	400878	36224	143604	233976
1	1996	49612	24077	40967	64324	24537	24178	77713	434341	37172	147099	254410
2	1997	53779	27075	43306	67834	26833	25493	84356	470694	38121	150630	276457
3	1998	58256	30445	45778	71543	29347	26879	91491	510194	39071	154196	300237
4	1999	63062	34235	48392	75460	32101	28341	99143	553121	40022	157797	325875
5	2000	68218	38497	51155	79598	35117	29882	107338	599781	40973	161435	353508
6	2001	73746	43289	54075	83969	38422	31506	116105	650507	41925	165110	383282
7	2002	79670	48677	57162	88586	42042	33220	125468	705665	42877	168820	415353
8	2003	86014	54737	60426	93463	46010	35026	135455	765654	43829	172565	449888
9	2004	92805	61551	63876	98615	50358	36931	146089	830910	44782	176346	487067
10	2005	100071	69213	67523	104056	55124	38939	157393	901910	45735	180161	527080
11	2006	107841	77828	71378	109803	60349	41056	169390	979176	46688	184008	570134 616448
12	2007	116147	87517	75453	115873	66077	43289	182097	1063280	47640 48593	187886 191795	666256
13	2008	125022	98411	79761	122283	72357	45643	195530 209699	1154847 1254561	49546	195731	719809
14	2009	134501	110662	84315	129052	79245	48125		1363174	50498	199693	777377
15	2010	144621	124437	89129	136200	86800	50742 53501	224610 240262	1481506	51450	203678	839245
16	2011	155422	139927	94218	143747	95088	56410	256647	1610458	52402	207684	905721
17	2012	166946	157346	99597	151716 160129	104181 114159	59478	273749	1751017	53353	211707	977130
18	2013	179236	176933	105283 111294	169010	125109	62712	291540	1904266	54303	215746	1053822
19	2014	192340 206308	198958 223724	117649	178386	137128	66122	309980	2071391	55253	219796	1136168
20 21	2015 2016	221191	251574	124366	188282	150323	69718	329018	2253696	56202	223854	1224565
22	2017	237046	282891	131466	198727	164812	73509	348584	2452611	57149	227917	1319434
23	2017	253932	318106	138972	209750	180722	77506	368592	2669703	58095	231981	1421225
24	2019	271910	357705	146907	221384	198197	81720	388938	2906696	59039	236043	1530412
25	2020	291047	402233	155294	233661	217393	86164	409494	3165484	59981	240098	1647503
26	2021	311413	452304	164160	246617	238484	90850	430110	3448146	60920	244143	1773031
27	2022	333082	508608	173533	260288	261661	95790	450611	3756967	61855	248174	1907564
28	2023	356131	571921	183440	274713	287133	100999	470793	4094460	62786	252188	2051699
29	2024	380644	643115	193914	289935	315134	106491	490427	4463388	63712	256181	2206064
30	2025	406707	723172	204985	305997	345919	112281	509252	4866792	64632	260151	2371323
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							111			14 55		
step	Year	AYcon	AYegw	AYtc	AYtrade	AYbr	AYgov	AYothers	Krgmin	Krqaff	Krgmnf	Krqcon
0	1995	45736	21412	38754	61000	22441	22931	71534	156850	252743	526446	46651
1	1996	49428	23988	40814	64084	24446	24088	77424	160954	258895	572422	50416
2	1997	53347	26857	42957	67289	26617	25288	83678	165063	265109	622029	54414
2 3	1997 1998	53347 57502	26857 30051	42957 45186	67289 70617	26617 28967	25288 26531	83678 90307	165063 169177	265109 271384	622029 675533	54414 58652
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 26 27 28	1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2018 2019 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023	53347 57502 61903 66560 71480 76676 82156 87931 94013 100411 107137 114204 121622 129405 137565 146114 155066 164435 174233 184476 195177 206350 218010 230170 242845 256049 269795	26857 30051 33606 37561 41959 46848 52282 58318 65022 72466 80728 89895 100065 111344 123850 137712 153073 170092 188942 209816 232924 258499 286797 318099 352714 390981 433271	42957 45186 47503 49911 52414 55015 57716 60522 63435 66460 97600 72859 76242 79751 83392 87169 91086 95147 99358 103722 108245 112931 117785 122812 128015 133399 138969	67289 70617 74074 77663 81390 85258 89272 93436 97756 102237 106884 111701 116695 121869 127231 132784 138735 144489 150652 157029 163626 170447 177499 184787 192316 200090 208115	26617 28967 31511 34264 40463 43946 47713 51787 56190 60951 66096 71657 77668 84163 91181 98764 106957 115809 125371 135701 146858 158908 171922 185974 201146 217524	25288 26531 27820 29155 30539 31971 33455 34991 36582 38227 39931 41693 43517 45403 47354 49371 51457 53613 55842 58145 60525 62983 65521 68142 70846 73636 76514	83678 90307 97322 104730 112539 120754 129380 138417 147865 157719 167971 178610 189619 200977 212656 224622 236834 249242 261788 274405 287013 299525 311839 323842 335407 346397 356660	165063 169177 173293 177413 181534 185657 189781 193906 198031 202157 206282 210408 214532 218656 222778 226899 231018 235133 239246 243354 247456 251552 255639 259717 263782 267832 271863	265109 271384 277724 284126 290593 297123 303715 310369 317083 323854 330680 337559 344487 351459 358473 365523 379605 379712 386840 393983 401134 408287 415435 422572 429692 436787 443851	622029 675533 733219 795393 862385 934544 1012248 1095900 1185931 1282802 1387007 1499075 1619571 1749098 1888302 2037872 2198542 2371099 2556378 2755271 2968728 3197756 3443428 3706881 3989320 4292019 4616322	54414 58652 63141 67891 72910 78209 83799 89690 95893 102419 109280 116488 124055 131993 140316 149036 158167 167723 177718 188166 199080 210477 222370 234773 247702 261170 275191
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 26 27 28	1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2018 2019 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023	53347 57502 61903 66560 71480 76676 82156 87931 94013 100411 107137 114204 121622 129405 137565 146114 155066 164435 174233 184476 195177 206350 218010 230170 242845 256049 269795	26857 30051 33606 37561 41959 46848 52282 58318 65022 72466 80728 89895 100065 111344 123850 137712 153073 170092 188942 209816 232924 258499 286797 318099 352714 390981 433271	42957 45186 47503 49911 52414 55015 57716 60522 63435 66460 97600 72859 76242 79751 83392 87169 91086 95147 99358 103722 108245 112931 117785 122812 128015 133399 138969	67289 70617 74074 77663 81390 85258 89272 93436 97756 102237 106884 111701 116695 121869 127231 132784 138735 144489 150652 157029 163626 170447 177499 184787 192316 200090 208115	26617 28967 31511 34264 40463 43946 47713 51787 56190 60951 66096 71657 77668 84163 91181 98764 106957 115809 125371 135701 146858 158908 171922 185974 201146 217524	25288 26531 27820 29155 30539 31971 33455 34991 36582 38227 39931 41693 43517 45403 47354 49371 51457 53613 55842 58145 60525 62983 65521 68142 70846 73636 76514	83678 90307 97322 104730 112539 120754 129380 138417 147865 157719 167971 178610 189619 200977 212656 224622 236834 249242 261788 274405 287013 299525 311839 323842 335407 346397 356660	165063 169177 173293 177413 181534 185657 189781 193906 198031 202157 206282 210408 214532 218656 222778 226899 231018 235133 239246 243354 247456 251552 255639 259717 263782 267832 271863	265109 271384 277724 284126 290593 297123 303715 310369 317083 323854 330680 337559 344487 351459 358473 365523 372605 379712 386840 393983 401134 408287 415435 422572 429692 436787	622029 675533 733219 795393 862385 934544 1012248 1095900 1185931 1282802 1387007 1499075 1619571 1749098 1888302 2037872 2198542 2371099 2556378 2755271 2968728 3197756 3443428 3706881 3989320 4292019 4616322	54414 58652 63141 67891 72910 78209 83799 89690 95893 102419 109280 116488 124055 131993 140316 149036 158167 167723 177718 188166 199080 210477 222370 234773 247702 261170 275191

step	Year	Krqegw	Krata	Krqtrade	Krqbr	Kragov	Krqothers	Krq	K	Krq/YR85D	KLGD/K[%]
0	1995	165943	107736	269010	11221	82093	204587	1823280	1823280	2.614	6.477
1	1996	185905	113463	282611	12223	86235	221431	1944556	1992149	2.617	6.165
						90529				2.621	5.887
2	1997	208140	119421	296743	13309		239318	2074074	2169475		
3	1998	232896	125616	311422	14484	94981	258278	2212423	2355934	2.626	5.638
4	1999	260447	132058	326666	15756	99595	278340	2360238	2552239	2.630	5.413
5	2000	291097	138753	342496	17132	104376	299527	2518203	2759143	2.635	5.207
6	2001	325182	145711	358929	18621	109329	321860	2687053	2977443	2.640	5.018
7	2002	363074	152941	375986	20231	114458	345356	2867579	3207983	2.645	4.844
8	2003	405184	160450	393687	21973	119770	370025	3060634	3451655	2.651	4.682
9	2004	451966	168250	412054	23857	125269	395872	3267133	3709406	2.657	4.531
10	2005	503923	176349	431106	25893	130962	422893	3488064	3982238	2.664	4.390
11	2006	561610	184759	450867	28095	136854	451075	3724492	4271215	2.671	4.256
12	2007	625639	193488	471358	30475	142952	480397	3977561	4577466	2.678	4.130
13	2008	696689	202549	492603	33048	149262	510825	4248505	4902188	2.686	4.011
14	2009	775506	211952	514624	35829	155790	542311	4538656	5246655	2.694	3.898
15	2010	862918	221709	537444	38834	162543	574795	4849448	5612217	2.703	3.789
16	2011	959836	231831	561087	42081	169527	608197	5182427	6000310	2.712	3.686
17.	2012	1067265	242330	585578	45590	176749	642419	5539261	6412460	2.722	3.587
18	2012	1186316	253219	610940	49382	184216	677345	5921749	6850289	2.722	3.492
					4.5						
19	2014	1318212	264509	637198	53479	191936	712832	6331833	7315521	2.744	3.401
20	2015	1464302	276215	664376	57905	199915	748714	6771608	7809989	2.755	3.313
21	2016	1626073	288348	692498	62686	208160	784797	7243336	8335645	2.767	3.228
22	2017	1805161	300922	721589	67850	216679	820858	7749458	8894561	2.780	3.146
23	2018	2003369	313949	751673	73429	225478	856642	8292612	9488947	2.793	3.067
24	2019	2222678	327443	782772	79454	234566	891860	8875646	10121148	2.807	2.991
25	2020	2465269	341416	814912	85961	243947	926187	9501636	10793665	2,822	2.917
26	2021	2733535	355882	848113	92987	253629	959264	10173905	11509156	2.837	2.845
27	2022	3030102	370851	882398	100573	263618	990695	10896044	12270450	2.853	2.775
28	2023	3357854	386335	917787	108762	273919	1020047	11671931	13080560	2.870	2.707
29	2024	3719944	402346	954300	117601	284538	1046854	12505758	13942691	2.887	2.641
30	2025	4119826	418893	991954	127139	295479	1070618	13402049	14860257	2.905	2.577
	V	4 OLIM		JOUA		TCUM		TOUM	EOOSUM.	KI CD /I I	(I CD
step	Year	drqSUM	d	dSUM	Irq	IrqSUM	I	ISUM	EOCSUM	KLGD/I I	KLGD
0	1995									KLGD/I I	KLGD
0 1	1995 1996	drqSUM 91164	91164	91164	212441	212441	260033	260033	39373	KLGD/I I	KLGD
0	1995									KLGD/I I	KLGD
0 1	1995 1996	91164	91164	91164	212441	212441	260033	260033	39373	KLGD/I I	(LGD
0 1 2 3	1995 1996 1997 1998	91164 188392 292095	91164 99607 108474	91164 190771 299245	212441 226745 242053	212441 439186 681239	260033 276934 294933	260033 536967 831900	39373 82534 129863	KLGD/I I	(LGD
0 1 2 3 4	1995 1996 1997 1998 1999	91164 188392 292095 402717	91164 99607 108474 117797	91164 190771 299245 417042	212441 226745 242053 258436	212441 439186 681239 939675	260033 276934 294933 314101	260033 536967 831900 1146001	39373 82534 129863 181781	KLGD/I I	(LGD
0 1 2 3 4 5	1995 1996 1997 1998 1999 2000	91164 188392 292095 402717 520729	91164 99607 108474 117797 127612	91164 190771 299245 417042 544654	212441 226745 242053 258436 275977	212441 439186 681239 939675 1215652	260033 276934 294933 314101 334516	260033 536967 831900 1146001 1480517	39373 82534 129863 181781 238752	KLGD/I I	(LGD
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