

DA

La	0/000217	0/000434	0/000217	0/000978	1/955753	0/000218	0/000109	0/129765
Ce	0/340303	1/529869	0/659679	0/358063	1/869586	0/60736	0/389392	0/527549
Pr	0/003294	0/011471	0/013459	0/019807	0/919216	0/005951	0/005308	0/084756
Nd	0/040939	0/09592	0/109253	0/163941	1/977302	0/054326	0/048664	0/197511
Sm	0/51407	1/398249	1/112554	1/403694	2/422276	0/711414	0/589411	0/759622
Eu	0/536519	0/529466	1/035628	1/566314	0/876576	0/554603	0/628447	0/654209
Gd	2/625522	8/93684	6/226461	7/539798	4/661049	3/919789	3/047385	3/545802
Tb	5/593249	23/14665	13/13609	15/80235	9/009586	7/779012	6/435682	7/91875
Dy	18/66089	82/15853	43/26317	49/91906	29/6416	23/8581	20/29661	26/49659
Ho	27/88047	130/2087	63/78826	73/02244	47/35372	33/8913	29/4572	41/35512
Er	39/62999	189/8014	91/31621	103/8893	72/92307	47/94939	41/781	61/91309
Tm	69/29797	334/3351	156/2476	179/6161	135/2868	81/05717	71/70836	111/4052
Yb	86/67341	403/4276	193/129	220/9707	175/0792	99/59246	89/6233	139/3845
Lu	128/8965	555/5798	283/2372	314/4076	263/2854	143/0397	132/5185	207/1206
Hf	1002/638	1342/92	1247/502	1220/776	1376/213	1067/272	1005/652	1222/592
Zr	2492/725	2728/266	2798/449	2940/46	2689/916	2628/486	2598/101	2828/261
Y	27/92253	133/8725	63/53374	74/37505	49/77755	34/19035	29/59688	43/08645
Ta	0/316324	2/474151	0/592404	0/421572	1/211593	0/344699	0/269054	0/521508
Nb	0/141676	2/168385	0/293434	0/188788	0/522359	0/16432	0/133121	0/258735
U	10/10153	131/1279	36/14669	30/44351	45/4894	14/77952	12/81773	36/49131
Th	3/233267	39/30574	10/95837	10/88065	8/788243	5/257678	4/298929	10/93704

TP

La	0/000129	0/009536	8/63E-05	0/009754	8/63E-05	8/63E-05	0/004447	0/020426
Ce	0/599615	0/325999	0/523507	0/540549	0/735178	0/411593	0/700323	0/667793
Pr	0/003423	0/017535	0/012481	0/010431	0/006454	0/011275	0/010044	0/038413
Nd	0/021328	0/036611	0/056204	0/02789	0/039379	0/080184	0/038533	0/097169
Sm	0/366576	0/316435	0/582877	0/348565	0/55872	1/148319	0/409735	0/892759
Eu	0/414879	0/48587	0/822404	0/316101	0/783538	1/25249	0/533749	1/117474
Gd	2/804593	2/160408	3/525028	2/572234	3/953152	8/612733	3/449234	6/486417
Tb	7/489925	5/47198	7/833125	6/907082	9/680501	20/65056	8/875194	15/51748
Dy	15/69326	10/72581	14/32358	14/5143	18/98326	39/69593	17/98133	29/64118
Ho	35/55591	22/72463	28/61684	32/30771	41/30934	79/8012	38/44927	59/62189
Er	55/82211	34/9833	40/969	50/73748	62/81953	113/5656	58/33913	82/60264
Tm	80/43084	47/99241	54/95991	72/6266	87/41671	151/2829	82/2695	108/6074
Yb	116/157	68/15362	75/08955	104/0895	124/0776	202/2761	115/3404	143/3993
Lu	168/0623	99/68903	108/0734	147/0033	175/8114	272/7135	160/2631	194/9882
Hf	1042/23	831/9408	760/1222	1068/088	895/2864	951/7443	1079/795	953/193
Zr	1921/787	1773/553	1951/997	1897/185	2004/836	1996/608	2007/421	1939/287
Y	59/27274	37/11326	45/61634	53/98946	67/89111	127/6793	63/96338	94/01079
Ta	0/357191	0/15771	0/109488	0/366468	0/274535	0/344212	0/335018	0/371382
Nb	5/342164	0/25351	0/248493	0/884942	0/766304	1/055806	0/80781	1/045244
U	67/3212	21/771	17/74349	67/07023	52/93707	200/2065	76/48775	124/1288
Th	8/900526	3/043463	3/832481	8/34745	8/224993	24/22073	10/77481	17/93508

CSK

La	0/000277	0/0047	0/062325	0/000967			0/000414	0/000138
Ce	1/820057	1/527755	2/607827	2/330825	1/683677	1/61194	2/379086	2/119532
Pr	0/009609	0/049542	0/161966	0/020457	0/029284	0/009084	0/012107	0/009329
Nd	0/08115	0/325094	0/494679	0/17905	0/202837	0/075322	0/138659	0/089681

Sm	0/544936	1/581456	1/183954	1/038633	1/019419	0/598395	0/792887	0/626191
Eu	0/500481	1/632571	0/860774	0/384842	1/040725	0/403985	0/564812	0/36367
Gd	5/125011	11/41534	6/82749	8/839641	7/457978	4/935404	7/268388	5/778145
Tb	6/022114	11/63707	7/886364	10/72745	7/328826	6/058562	8/675886	7/226992
Dy	15/16161	24/90196	19/00638	24/78476	15/88419	14/76322	19/61881	17/46873
Ho	29/93421	45/63528	38/1113	48/94018	28/83061	28/89474	36/66538	34/96921
Er	40/25402	57/33575	51/12885	63/2425	36/76295	39/40369	46/12019	46/60908
Tm	52/19588	72/02987	68/70359	81/52694	45/79153	52/62591	57/35562	60/30332
Yb	98/89555	132/9482	129/1857	151/6639	86/31346	100/8961	103/5255	112/0653
Lu	171/3481	226/7414	220/3441	247/4852	150/2347	174/2749	172/1947	187/6411
Hf	606/3971	647/642	847/0365	812/7691	603/1726	747/4767	742/1361	776/0926
Zr	1458/07	1840/052	1804/562	1922/856	1846/298	1860/436	1922/106	1740/271
Y	62/77178	93/18493	80/8219	101/6132	58/45033	61/41332	74/39725	72/54167
Ta	0/308417	0/132199	0/491269	0/480616	0/132078	0/374911	0/308095	0/437424
Nb	3/675203	0/257248	1/124752	1/277687	0/29392	0/799917	0/730953	1/005533
U	47/34967	37/98987	136/4835	107/8044	18/4234	43/00876	44/72712	85/43128
Th	6/929874	9/08868	17/44907	16/79654	3/71338	5/242538	8/056471	13/97024

BR-01

La	0/0011	1/260667	0/00228	0/008267	0/001467	0/008333	0/030733	0/000687
Ce	0/038773	0/247773	0/015909	0/026909	0/014182	0/027818	0/055045	0/024182
Pr	0/001656	0/3375	0/002995	0/014948	0/00474	0/004688	0/014375	0/001563
Nd	0/009969	0/487227	0/012492	0/061838	0/024922	0/026947	0/024922	0/005763
Sm	0/23875	1/075	0/24	0/885	0/30375	0/5325	0/28375	0/13875
Eu	0/054167	0/154167	0/061667	0/470833	0/513333	0/065	0/335	0/053333
Gd	1/781457	2/421192	1/629139	4/602649	1/282119	2/888742	1/590728	1/029139
Tb	4/475	4/991667	3/691667	9/6	2/691667	6/458333	3/258333	2/541667
Dy	12/73551	12/67935	10/27174	23/75	6/626812	17/87319	8/961957	7/628623
Ho	20/73485	19/82576	16/57576	34/90909	9/772727	27/90909	13/92424	13/05303
Er	39/21687	36/12349	30/45783	60/09639	17/4247	51/29217	24/53614	25/62349
Tm	51/80769	47/25	40/48077	74/88462	21/82692	65/40385	32/21154	35
Yb	74/60278	67/03889	58/56111	99/16667	31/2	93/29444	45/79722	52/62778
Lu	93/40385	85	74/92308	121/3654	40/80769	117/4423	59/53846	66/96154
Hf	1333/03	1249/269	1096/423	1043/646	840/395	1206/171	938/2925	1324/7
Zr	1288/312	1288/312	1288/312	1288/312	1288/312	1288/312	1288/312	1288/312
Y	48/11667	45/005	37/32778	78/16722	21/70056	64/08833	30/62833	30/62167
Ta	0/180417	0/152667	0/065917	0/057333	0/016583	0/095667	0/050583	0/143917
Nb	2/955556	0/425455	0/173909	0/135909	0/057	0/252727	0/150909	0/337273
U	111/83	101/066	46/374	67/052	7/964	100/164	19/772	53/738
Th	6/455429	6/374	3/138857	6/140857	0/8	5/588571	2/161143	2/574286

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La	0/456436	0/621782	3/076238	0/60198	0/009406	0/007525	0/199703	0/018713
Ce	0/072381	0/13081	0/444238	0/099667	0/034381	0/02081	0/054333	0/062381
Pr	0/075156	0/111667	0/629688	0/088542	0/007865	0/003516	0/028229	0/004948
Nd	0/122063	0/176032	0/989365	0/149841	0/031587	0/016667	0/042698	0/015238
Sm	0/443038	0/677215	2/386076	0/734177	0/481013	0/306329	0/286076	0/326582
Eu	0/114394	0/174242	0/639394	0/211364	0/159848	0/075	0/065152	0/053788
Gd	1/674286	2/562857	3/638571	2/468571	2/988571	1/7	1/535714	1/948571
Tb	3/609091	5/318182	5/954545	5/363636	6/681818	4/009091	3/963636	5/163636
Dy	8/761566	12/95374	12/34875	12/03737	15/72598	9/467972	9/976868	12/98932

Ho	13/46269	20/1194	18/84328	19/08955	24/41045	14/99254	17/02985	21/8806
Er	23/67536	35/63768	34/56522	32/82319	42/34493	26/13043	31/11884	40/71884
Tm	35/6875	51/70833	54/375	47/35417	61/64583	38/14583	47/4375	62/29167
Yb	48/46197	70/37746	76/53521	62/5493	81/1662	50/85634	65/46197	84/6338
Lu	56/96364	81/72727	94/23636	75/09091	95/43636	60/03636	76/10909	101/2
Hf	839/626	928/65	1016/954	827/088	872/761	848/767	1037/875	1062/856
Zr	1498/489	1498/489	1498/489	1498/489	1498/489	1498/489	1498/489	1498/489
Y	27/404	41/238	39/844	38/9495	49/9025	29/9475	34/873	46/763
Ta	0/059	0/138	0/2055	0/06425	0/093083	0/062917	0/1855	0/216917
Nb	1/12875	0/403636	0/446364	0/222727	0/280909	0/184636	0/599091	0/551818
U	38/76452	62/1371	69/09839	36/34355	58/76452	34/94677	74/45323	113/1903
Th	2/971463	4/926585	3/638049	3/408049	5/090732	2/471707	4/461951	7/827317

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La	0/007162	0/018519	0/071895					0/322619
Ce	0/166484	0/225156	0/194953	0/094256	0/125343	0/185135	0/110408	0/590322
Pr	0/013863	0/029914	0/0959	0/002986	0/02945	0/004435	0/001726	0/501133
Nd	0/044595	0/052425	0/136836	0/028411	0/139907	0/026859	0/017919	0/656956
Sm	0/582711	0/632907	0/651089	0/629121	2/135311	0/708281	0/396962	1/278641
Eu	0/239399	0/328094	0/180955	0/097989	1/049799	0/168637	0/262521	0/580894
Gd	4/493317	4/475892	3/843189	4/019539	9/232347	3/928373	3/074153	3/561463
Tb	12/85901	12/46174	10/36772	11/09959	25/45177	11/18322	8/075096	9/219228
Dy	26/07039	26/47589	21/14929	23/37056	46/17238	23/18007	17/90726	19/56902
Ho	53/64285	53/84882	43/8829	48/0457	88/78352	46/39802	43/16203	41/57932
Er	70/03263	75/56502	55/5168	62/64092	111/0724	64/03674	57/92499	60/25618
Tm	109/9095	123/6138	84/54373	98/18098	157/6196	103/8474	88/11975	101/9431
Yb	139/1549	158/2102	108/3639	126/3762	206/0772	131/3305	121/8023	144/4336
Lu	160/8559	188/2503	126/0074	151/8506	226/8233	155/9005	145/8523	175/4457
Hf	418/9046	483/9462	382/8772	469/5165	426/4468	467/9836	502/8098	488/5564
Zr	1417/143	1417/143	1417/143	1417/143	1417/143	1417/143	1417/143	1417/143
Y	50/90885	53/18665	40/79168	46/32321	83/22948	46/16078	40/45975	43/12361
Ta	0/287166	0/410832	0/226939	0/188865	0/080904	0/263126	0/351938	0/416055
Nb	2/953766	0/8056	0/399919	0/336874	0/190909	0/569025	0/527464	0/693916
U	96/46924	120/7589	82/2738	66/27805	64/90563	78/07499	75/72465	74/81711
Th	8/406131	9/087371	6/716404	4/717028	7/132478	5/716295	4/815703	4/783914

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La		0/168641		0/006293				
Ce	0/073288	0/232319	0/078397	0/084442	0/133352	0/081441		
Pr	0/009201	0/166984	0/010549	0/014768		0/002741		
Nd	0/05108	0/319681	0/029286	0/027333	0/039346	0/008866		
Sm	0/902116	0/779529	0/435427	0/174263	0/66932	0/453913		
Eu	0/256118	0/343472	0/440567	0/513994				
Gd	5/276993	2/036423	3/035896	1/454711	5/677467	2/69126		
Tb	11/79002	6/049574	7/238356	4/792978	11/04062	5/96678		
Dy	25/76445	11/76667	16/92976	11/46509	27/01952	15/37925		
Ho	47/10334	23/01709	34/70357	21/63435	50/47094	31/44905		
Er	63/42938	31/82688	48/71797	34/38644	77/56918	44/89054		
Tm	93/9839	54/04996	72/93962	56/20312	122/3763	69/50219		
Yb	125/6732	68/76386	106/862	83/05141	158/5061	101/5952		
Lu	154/7669	87/8111	131/1059	99/02753	190/7297	120/6908		

Hf	382/4635	361/7167	418/9378	434/7193	437/7505	445/7794
Zr	1600	1600	1600	1600	1600	1600
Y	98/89789	49/92736	72/64646	49/2039	107/1623	65/83143
Ta	0/202709	0/16594	0/366165	0/388544	0/264694	0/404724
Nb	1/556818	0/368889	0/628224	0/53095	0/366174	0/810421
U	100/3122	71/60655	111/0169	92/58166	151/3504	114/8268
Th	9/684925	6/297886	7/237991	5/962954	13/52133	7/395289

SK-2-2

La	0/003254	0/000701	0/049983		0/004878	
Ce	0/142022	0/08959	0/218314	0/068298	0/141229	0/144363
Pr	0/005625	0/002826	0/184848		0/088586	0/005786
Nd	0/032764	0/019757	0/262459	0/009132	0/368244	0/020225
Sm	0/576665	0/413145	0/904909	0/539446	2/988783	0/484799
Eu	0/078229	0/061719	0/252272	0/45646	0/752419	
Gd	3/042423	3/277081	2/298035	2/416059	16/19372	1/990751
Tb	7/79261	6/691857	5/942847	6/1583	29/92294	7/217768
Dy	17/08457	14/94794	11/73182	11/6272	59/02941	15/14191
Ho	32/10391	30/74478	23/01478	23/23073	101/0932	28/57204
Er	49/56137	43/59972	35/2425	33/96322	130/1132	43/95036
Tm	80/31111	70/39345	58/43055	58/25323	191/229	76/60106
Yb	110/3013	89/37623	83/87034	69/38293	228/8581	110/3977
Lu	141/7544	118/3558	103/7175	96/04103	271/8889	147/7344
Hf	1959/421	1826/474	2025/783	1757/976	950/1331	2078/825
Zr	1255/696	1255/696	1255/696	1255/696	1255/696	1255/696
Y	74/08114	65/09375	51/42236	51/93249	207/9557	68/00586
Ta	0/39066	0/219536	0/378804	0/1428	0/118393	0/432626
Nb	4/200806	0/563129	0/534291	0/32497	0/309692	0/968361
U	214/1868	175/7399	141/3562	110/5611	221/4389	177/4497
Th	10/4811	8/981034	5/739514	5/645095	22/91849	7/312923

0/000763	0/000327	0/000545	0/000544	0/000109	0/000109	0/000543	0/002712	0/012719
0/765385	0/436171	0/493843	0/579969	0/752704	2/161001	0/400527	0/39645	1/071166
0/022794	0/006621	0/010057	0/025522	0/006866	0/014382	0/007384	0/032507	0/012402
0/188441	0/064237	0/083548	0/174324	0/061894	0/115844	0/056109	0/197126	0/119978
1/795121	0/556802	0/91324	1/605333	0/756297	1/604233	0/650259	1/714373	1/26122
1/55583	0/79438	0/938318	1/499611	0/568587	1/081622	0/74555	1/947883	1/105774
9/151285	3/722843	4/493072	6/5939	4/540247	10/25973	3/349779	9/086625	7/773727
20/36857	9/106613	9/431299	12/96014	10/78006	26/234	7/266711	18/99683	18/93569
68/09689	31/48935	28/75935	39/0155	37/49597	96/17164	22/72184	60/62596	66/21053
100/1517	51/86736	42/25029	55/40721	59/02516	155/3337	33/25147	89/53666	104/8137
147/0837	81/00967	58/8377	76/44118	87/23358	239/0851	47/9766	128/7141	161/2197
253/9789	150/6344	101/5524	130/0246	159/1201	435/4092	84/48044	224/9806	300/2233
314/0732	196/7816	127/0484	158/1214	196/0838	534/0724	105/126	276/8948	380/5989
440/811	298/5879	186/8744	224/9509	279/7139	750/972	154/1544	397/0252	546/7052
1301/415	1215/657	1117/257	1127/774	1360/984	1391/458	1088/933	1132/009	1413/309
2800/996	2795/866	2846/727	2904/525	2821/076	2813/308	2842/408	2834/38	2834/935
103/9729	55/3064	41/97742	55/07125	61/07823	165/2181	34/07116	92/44293	113/0546
0/775104	0/810722	0/395854	0/378642	1/116062	3/078156	0/334997	0/498993	1/657916
0/408311	0/427902	0/176351	0/19043	0/592945	3/01273	0/164685	0/240938	1/093806
65/26268	39/26268	15/9208	20/07925	57/08168	220/5655	13/15851	47/72374	153/5602
23/58557	9/169442	5/471603	7/891892	14/84887	69/65434	4/309789	19/33423	39/84396
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