

Tabela A-5

Distribuição F (alfa = 0,025 na cauda DIREITA)

 $\alpha = 0,025$ Número de Graus de Liberdade do Numerador (gl₁)

	1	2	3	4	5	6	7	8	9
1	647,789	799,500	864,163	899,583	921,848	937,111	948,217	956,656	963,285
2	38,506	39,000	39,165	39,248	39,298	39,331	39,355	39,373	39,387
3	17,443	16,044	15,439	15,101	14,885	14,735	14,624	14,540	14,473
4	12,218	10,649	9,979	9,605	9,364	9,197	9,074	8,980	8,905
5	10,007	8,434	7,764	7,388	7,146	6,978	6,853	6,757	6,681
6	8,813	7,260	6,599	6,227	5,988	5,820	5,695	5,600	5,523
7	8,073	6,542	5,890	5,523	5,285	5,119	4,995	4,899	4,823
8	7,571	6,059	5,416	5,053	4,817	4,652	4,529	4,433	4,357
9	7,209	5,715	5,078	4,718	4,484	4,320	4,197	4,102	4,026
10	6,937	5,456	4,826	4,468	4,236	4,072	3,950	3,855	3,779
11	6,724	5,256	4,630	4,275	4,044	3,881	3,759	3,664	3,588
12	6,554	5,096	4,474	4,121	3,891	3,728	3,607	3,512	3,436
13	6,414	4,965	4,347	3,996	3,767	3,604	3,483	3,388	3,312
14	6,298	4,857	4,242	3,892	3,663	3,501	3,380	3,285	3,209
15	6,200	4,765	4,153	3,804	3,576	3,415	3,293	3,199	3,123
16	6,115	4,687	4,077	3,729	3,502	3,341	3,219	3,125	3,049
17	6,042	4,619	4,011	3,665	3,438	3,277	3,156	3,061	2,985
18	5,978	4,560	3,954	3,608	3,382	3,221	3,100	3,005	2,929
19	5,922	4,508	3,903	3,559	3,333	3,172	3,051	2,956	2,880
20	5,871	4,461	3,859	3,515	3,289	3,128	3,007	2,913	2,837
21	5,827	4,420	3,819	3,475	3,250	3,090	2,969	2,874	2,798
22	5,786	4,383	3,783	3,440	3,215	3,055	2,934	2,839	2,763
23	5,750	4,349	3,750	3,408	3,183	3,023	2,902	2,808	2,731
24	5,717	4,319	3,721	3,379	3,155	2,995	2,874	2,779	2,703
25	5,686	4,291	3,694	3,353	3,129	2,969	2,848	2,753	2,677
26	5,659	4,265	3,670	3,329	3,105	2,945	2,824	2,729	2,653
27	5,633	4,242	3,647	3,307	3,083	2,923	2,802	2,707	2,631
28	5,610	4,221	3,626	3,286	3,063	2,903	2,782	2,687	2,611
29	5,588	4,201	3,607	3,267	3,044	2,884	2,763	2,669	2,592
30	5,568	4,182	3,589	3,250	3,026	2,867	2,746	2,651	2,575
31	5,549	4,165	3,573	3,234	3,010	2,851	2,730	2,635	2,558
32	5,531	4,149	3,557	3,218	2,995	2,836	2,715	2,620	2,543
33	5,515	4,134	3,543	3,204	2,981	2,822	2,701	2,606	2,529
34	5,499	4,120	3,529	3,191	2,968	2,808	2,688	2,593	2,516
35	5,485	4,106	3,517	3,179	2,956	2,796	2,676	2,581	2,504
36	5,471	4,094	3,505	3,167	2,944	2,785	2,664	2,569	2,492
37	5,458	4,082	3,493	3,156	2,933	2,774	2,653	2,558	2,481
38	5,446	4,071	3,483	3,145	2,923	2,763	2,643	2,548	2,471
39	5,435	4,061	3,473	3,135	2,913	2,754	2,633	2,538	2,461
40	5,424	4,051	3,463	3,126	2,904	2,744	2,624	2,529	2,452
41	5,414	4,042	3,454	3,117	2,895	2,736	2,615	2,520	2,443
42	5,404	4,033	3,446	3,109	2,887	2,727	2,607	2,512	2,435
43	5,395	4,024	3,438	3,101	2,879	2,719	2,599	2,504	2,427
44	5,386	4,016	3,430	3,093	2,871	2,712	2,591	2,496	2,419
45	5,377	4,009	3,422	3,086	2,864	2,705	2,584	2,489	2,412
46	5,369	4,001	3,415	3,079	2,857	2,698	2,577	2,482	2,405
47	5,361	3,994	3,409	3,073	2,851	2,691	2,571	2,476	2,399
48	5,354	3,987	3,402	3,066	2,844	2,685	2,565	2,470	2,393
49	5,347	3,981	3,396	3,060	2,838	2,679	2,559	2,464	2,387
50	5,340	3,975	3,390	3,054	2,833	2,674	2,553	2,458	2,381
100	5,179	3,828	3,250	2,917	2,696	2,537	2,417	2,321	2,244
150	5,126	3,781	3,204	2,872	2,652	2,494	2,373	2,278	2,200
200	5,100	3,758	3,182	2,850	2,630	2,472	2,351	2,256	2,178
250	5,085	3,744	3,169	2,837	2,618	2,459	2,338	2,243	2,165
300	5,075	3,735	3,160	2,829	2,609	2,451	2,330	2,234	2,156
350	5,067	3,728	3,154	2,822	2,603	2,444	2,324	2,228	2,150
400	5,062	3,723	3,149	2,818	2,598	2,440	2,319	2,224	2,146
450	5,058	3,719	3,145	2,814	2,595	2,436	2,316	2,220	2,142
500	5,054	3,716	3,142	2,811	2,592	2,434	2,313	2,217	2,139
600	5,049	3,712	3,138	2,807	2,588	2,429	2,309	2,213	2,135
700	5,046	3,708	3,135	2,804	2,585	2,426	2,306	2,210	2,132
800	5,043	3,706	3,132	2,802	2,582	2,424	2,303	2,208	2,130
900	5,041	3,704	3,131	2,800	2,581	2,422	2,302	2,206	2,128
1000	5,039	3,703	3,129	2,799	2,579	2,421	2,300	2,204	2,126

Número de Graus de Liberdade do Denominador (gl₂)

10	11	12	13	14	15	16	17	18	19	20
968,627	973,025	976,708	979,837	982,528	984,867	986,919	988,733	990,349	991,797	993,103
39,398	39,407	39,415	39,421	39,427	39,431	39,435	39,439	39,442	39,445	39,448
14,419	14,374	14,337	14,304	14,277	14,253	14,232	14,213	14,196	14,181	14,167
8,844	8,794	8,751	8,715	8,684	8,657	8,633	8,611	8,592	8,575	8,560
6,619	6,568	6,525	6,488	6,456	6,428	6,403	6,381	6,362	6,344	6,329
5,461	5,410	5,366	5,329	5,297	5,269	5,244	5,222	5,202	5,184	5,168
4,761	4,709	4,666	4,628	4,596	4,568	4,543	4,521	4,501	4,483	4,467
4,295	4,243	4,200	4,162	4,130	4,101	4,076	4,054	4,034	4,016	3,999
3,964	3,912	3,868	3,831	3,798	3,769	3,744	3,722	3,701	3,683	3,667
3,717	3,665	3,621	3,583	3,550	3,522	3,496	3,474	3,453	3,435	3,419
3,526	3,474	3,430	3,392	3,359	3,330	3,304	3,282	3,261	3,243	3,226
3,374	3,321	3,277	3,239	3,206	3,177	3,152	3,129	3,108	3,090	3,073
3,250	3,197	3,153	3,115	3,082	3,053	3,027	3,004	2,983	2,965	2,948
3,147	3,095	3,050	3,012	2,979	2,949	2,923	2,900	2,879	2,861	2,844
3,060	3,008	2,963	2,925	2,891	2,862	2,836	2,813	2,792	2,773	2,756
2,986	2,934	2,889	2,851	2,817	2,788	2,761	2,738	2,717	2,698	2,681
2,922	2,870	2,825	2,786	2,753	2,723	2,697	2,673	2,652	2,633	2,616
2,866	2,814	2,769	2,730	2,696	2,667	2,640	2,617	2,596	2,576	2,559
2,817	2,765	2,720	2,681	2,647	2,617	2,591	2,567	2,546	2,526	2,509
2,774	2,721	2,676	2,637	2,603	2,573	2,547	2,523	2,501	2,482	2,464
2,735	2,682	2,637	2,598	2,564	2,534	2,507	2,483	2,462	2,442	2,425
2,700	2,647	2,602	2,563	2,528	2,498	2,472	2,448	2,426	2,407	2,389
2,668	2,615	2,570	2,531	2,497	2,466	2,440	2,416	2,394	2,374	2,357
2,640	2,586	2,541	2,502	2,468	2,437	2,411	2,386	2,365	2,345	2,327
2,613	2,560	2,515	2,476	2,441	2,411	2,384	2,360	2,338	2,318	2,300
2,590	2,536	2,491	2,451	2,417	2,387	2,360	2,335	2,314	2,294	2,276
2,568	2,514	2,469	2,429	2,395	2,364	2,337	2,313	2,291	2,271	2,253
2,547	2,494	2,448	2,409	2,374	2,344	2,317	2,292	2,270	2,251	2,232
2,529	2,475	2,430	2,390	2,355	2,325	2,298	2,273	2,251	2,231	2,213
2,511	2,458	2,412	2,372	2,338	2,307	2,280	2,255	2,233	2,213	2,195
2,495	2,442	2,396	2,356	2,321	2,291	2,263	2,239	2,217	2,197	2,178
2,480	2,426	2,381	2,341	2,306	2,275	2,248	2,223	2,201	2,181	2,163
2,466	2,412	2,366	2,327	2,292	2,261	2,234	2,209	2,187	2,167	2,148
2,453	2,399	2,353	2,313	2,278	2,248	2,220	2,195	2,173	2,153	2,135
2,440	2,387	2,341	2,301	2,266	2,235	2,207	2,183	2,160	2,140	2,122
2,429	2,375	2,329	2,289	2,254	2,223	2,196	2,171	2,148	2,128	2,110
2,418	2,364	2,318	2,278	2,243	2,212	2,184	2,160	2,137	2,117	2,098
2,407	2,353	2,307	2,267	2,232	2,201	2,174	2,149	2,126	2,106	2,088
2,397	2,344	2,298	2,257	2,222	2,191	2,164	2,139	2,116	2,096	2,077
2,388	2,334	2,288	2,248	2,213	2,182	2,154	2,129	2,107	2,086	2,068
2,379	2,325	2,279	2,239	2,204	2,173	2,145	2,120	2,098	2,077	2,059
2,371	2,317	2,271	2,231	2,196	2,164	2,137	2,112	2,089	2,069	2,050
2,363	2,309	2,263	2,223	2,187	2,156	2,128	2,103	2,081	2,060	2,042
2,355	2,302	2,255	2,215	2,180	2,149	2,121	2,096	2,073	2,052	2,034
2,348	2,294	2,248	2,208	2,172	2,141	2,113	2,088	2,066	2,045	2,026
2,341	2,287	2,241	2,201	2,165	2,134	2,106	2,081	2,058	2,038	2,019
2,335	2,281	2,234	2,194	2,159	2,127	2,100	2,074	2,052	2,031	2,012
2,329	2,274	2,228	2,188	2,152	2,121	2,093	2,068	2,045	2,024	2,006
2,323	2,268	2,222	2,182	2,146	2,115	2,087	2,062	2,039	2,018	1,999
2,317	2,263	2,216	2,176	2,140	2,109	2,081	2,056	2,033	2,012	1,993
2,179	2,124	2,077	2,036	2,000	1,968	1,939	1,913	1,890	1,868	1,849
2,135	2,080	2,032	1,991	1,955	1,922	1,893	1,867	1,843	1,821	1,801
2,113	2,058	2,010	1,969	1,932	1,900	1,870	1,844	1,820	1,798	1,778
2,100	2,045	1,997	1,955	1,919	1,886	1,857	1,830	1,806	1,784	1,764
2,091	2,036	1,988	1,947	1,910	1,877	1,848	1,821	1,797	1,775	1,755
2,085	2,030	1,982	1,940	1,903	1,871	1,841	1,815	1,790	1,768	1,748
2,080	2,025	1,977	1,936	1,899	1,866	1,836	1,810	1,786	1,763	1,743
2,077	2,021	1,974	1,932	1,895	1,862	1,833	1,806	1,782	1,760	1,739
2,074	2,019	1,971	1,929	1,892	1,859	1,830	1,803	1,779	1,757	1,736
2,070	2,014	1,966	1,925	1,888	1,855	1,825	1,798	1,774	1,752	1,732
2,067	2,011	1,963	1,921	1,885	1,852	1,822	1,795	1,771	1,749	1,728
2,064	2,009	1,961	1,919	1,882	1,849	1,820	1,793	1,768	1,746	1,726
2,063	2,007	1,959	1,917	1,880	1,847	1,818	1,791	1,767	1,744	1,724
2,061	2,006	1,958	1,916	1,879	1,846	1,816	1,789	1,765	1,743	1,722

21	22	23	24	25	26	27	28	29	30	40
994,286	995,362	996,346	997,249	998,081	998,849	999,561	1000,222	1000,839	1001,414	1005,598
39,450	39,452	39,454	39,456	39,458	39,459	39,461	39,462	39,463	39,465	39,473
14,155	14,144	14,134	14,124	14,115	14,107	14,100	14,093	14,087	14,081	14,037
8,546	8,533	8,522	8,511	8,501	8,492	8,483	8,476	8,468	8,461	8,411
6,314	6,301	6,289	6,278	6,268	6,258	6,250	6,242	6,234	6,227	6,175
5,154	5,141	5,128	5,117	5,107	5,097	5,088	5,080	5,072	5,065	5,012
4,452	4,439	4,426	4,415	4,405	4,395	4,386	4,378	4,370	4,362	4,309
3,985	3,971	3,959	3,947	3,937	3,927	3,918	3,909	3,901	3,894	3,840
3,652	3,638	3,626	3,614	3,604	3,594	3,584	3,576	3,568	3,560	3,505
3,403	3,390	3,377	3,365	3,355	3,345	3,335	3,327	3,319	3,311	3,255
3,211	3,197	3,184	3,173	3,162	3,152	3,142	3,133	3,125	3,118	3,061
3,057	3,043	3,031	3,019	3,008	2,998	2,988	2,979	2,971	2,963	2,906
2,932	2,918	2,905	2,893	2,882	2,872	2,862	2,853	2,845	2,837	2,780
2,828	2,814	2,801	2,789	2,778	2,767	2,758	2,749	2,740	2,732	2,674
2,740	2,726	2,713	2,701	2,689	2,679	2,669	2,660	2,652	2,644	2,585
2,665	2,651	2,637	2,625	2,614	2,603	2,594	2,584	2,576	2,568	2,509
2,600	2,585	2,572	2,560	2,548	2,538	2,528	2,519	2,510	2,502	2,442
2,543	2,529	2,515	2,503	2,491	2,481	2,471	2,461	2,453	2,445	2,384
2,493	2,478	2,465	2,452	2,441	2,430	2,420	2,411	2,402	2,394	2,333
2,448	2,434	2,420	2,408	2,396	2,385	2,375	2,366	2,357	2,349	2,287
2,409	2,394	2,380	2,368	2,356	2,345	2,335	2,325	2,317	2,308	2,246
2,373	2,358	2,344	2,331	2,320	2,309	2,299	2,289	2,280	2,272	2,210
2,340	2,325	2,312	2,299	2,287	2,276	2,266	2,256	2,247	2,239	2,176
2,311	2,296	2,282	2,269	2,257	2,246	2,236	2,226	2,217	2,209	2,146
2,284	2,269	2,255	2,242	2,230	2,219	2,209	2,199	2,190	2,182	2,118
2,259	2,244	2,230	2,217	2,205	2,194	2,184	2,174	2,165	2,157	2,093
2,237	2,222	2,208	2,195	2,183	2,171	2,161	2,151	2,142	2,133	2,069
2,216	2,201	2,187	2,174	2,161	2,150	2,140	2,130	2,121	2,112	2,048
2,196	2,181	2,167	2,154	2,142	2,131	2,120	2,110	2,101	2,092	2,028
2,178	2,163	2,149	2,136	2,124	2,112	2,102	2,092	2,083	2,074	2,009
2,162	2,146	2,132	2,119	2,107	2,095	2,085	2,075	2,066	2,057	1,991
2,146	2,131	2,116	2,103	2,091	2,080	2,069	2,059	2,050	2,041	1,975
2,131	2,116	2,102	2,088	2,076	2,065	2,054	2,044	2,035	2,026	1,960
2,118	2,102	2,088	2,075	2,062	2,051	2,040	2,030	2,021	2,012	1,946
2,105	2,089	2,075	2,062	2,049	2,038	2,027	2,017	2,008	1,999	1,932
2,093	2,077	2,063	2,049	2,037	2,025	2,015	2,005	1,995	1,986	1,919
2,081	2,066	2,051	2,038	2,025	2,014	2,003	1,993	1,983	1,974	1,907
2,071	2,055	2,040	2,027	2,015	2,003	1,992	1,982	1,972	1,963	1,896
2,060	2,045	2,030	2,017	2,004	1,993	1,982	1,971	1,962	1,953	1,885
2,051	2,035	2,020	2,007	1,994	1,983	1,972	1,962	1,952	1,943	1,875
2,041	2,026	2,011	1,998	1,985	1,973	1,962	1,952	1,943	1,933	1,866
2,033	2,017	2,002	1,989	1,976	1,964	1,953	1,943	1,934	1,924	1,856
2,024	2,009	1,994	1,980	1,968	1,956	1,945	1,935	1,925	1,916	1,848
2,016	2,001	1,986	1,972	1,960	1,948	1,937	1,927	1,917	1,908	1,839
2,009	1,993	1,978	1,965	1,952	1,940	1,929	1,919	1,909	1,900	1,831
2,002	1,986	1,971	1,957	1,945	1,933	1,922	1,912	1,902	1,893	1,824
1,995	1,979	1,964	1,951	1,938	1,926	1,915	1,904	1,895	1,885	1,816
1,988	1,972	1,958	1,944	1,931	1,919	1,908	1,898	1,888	1,879	1,809
1,982	1,966	1,951	1,937	1,925	1,913	1,902	1,891	1,881	1,872	1,803
1,976	1,960	1,945	1,931	1,919	1,907	1,895	1,885	1,875	1,866	1,796
1,830	1,814	1,798	1,784	1,770	1,758	1,746	1,735	1,725	1,715	1,640
1,783	1,766	1,750	1,736	1,722	1,709	1,697	1,686	1,675	1,665	1,588
1,759	1,742	1,726	1,712	1,698	1,685	1,673	1,661	1,650	1,640	1,562
1,745	1,728	1,712	1,697	1,683	1,670	1,658	1,647	1,636	1,625	1,546
1,736	1,719	1,703	1,688	1,674	1,661	1,648	1,637	1,626	1,616	1,536
1,729	1,712	1,696	1,681	1,667	1,654	1,641	1,630	1,619	1,608	1,529
1,724	1,707	1,691	1,676	1,662	1,649	1,636	1,625	1,614	1,603	1,523
1,720	1,703	1,687	1,672	1,658	1,645	1,632	1,620	1,609	1,599	1,519
1,717	1,700	1,684	1,669	1,655	1,641	1,629	1,617	1,606	1,596	1,515
1,713	1,695	1,679	1,664	1,650	1,637	1,624	1,612	1,601	1,591	1,510
1,709	1,692	1,676	1,661	1,646	1,633	1,621	1,609	1,598	1,587	1,506
1,707	1,689	1,673	1,658	1,644	1,631	1,618	1,606	1,595	1,585	1,503
1,705	1,687	1,671	1,656	1,642	1,628	1,616	1,604	1,593	1,582	1,501
1,703	1,686	1,670	1,654	1,640	1,627	1,614	1,603	1,591	1,581	1,499

50	60	70	80	90	100	150	200	250	300	350
1008,117	1009,800	1011,004	1011,908	1012,612	1013,175	1014,866	1015,713	1016,222	1016,561	1016,803
39,478	39,481	39,484	39,485	39,487	39,488	39,491	39,493	39,494	39,495	39,495
14,010	13,992	13,979	13,970	13,962	13,956	13,938	13,929	13,924	13,920	13,918
8,381	8,360	8,346	8,335	8,326	8,319	8,299	8,289	8,282	8,278	8,275
6,144	6,123	6,107	6,096	6,087	6,080	6,059	6,048	6,041	6,037	6,034
4,980	4,959	4,943	4,932	4,923	4,915	4,893	4,882	4,876	4,871	4,868
4,276	4,254	4,239	4,227	4,218	4,210	4,188	4,176	4,170	4,165	4,162
3,807	3,784	3,768	3,756	3,747	3,739	3,716	3,705	3,698	3,693	3,690
3,472	3,449	3,433	3,421	3,411	3,403	3,380	3,368	3,361	3,357	3,353
3,221	3,198	3,182	3,169	3,160	3,152	3,128	3,116	3,109	3,104	3,101
3,027	3,004	2,987	2,974	2,964	2,956	2,932	2,920	2,912	2,908	2,904
2,871	2,848	2,831	2,818	2,808	2,800	2,775	2,763	2,755	2,750	2,747
2,744	2,720	2,703	2,690	2,680	2,671	2,647	2,634	2,626	2,621	2,618
2,638	2,614	2,597	2,583	2,573	2,565	2,539	2,526	2,519	2,513	2,510
2,549	2,524	2,506	2,493	2,482	2,474	2,448	2,435	2,427	2,422	2,418
2,472	2,447	2,429	2,415	2,405	2,396	2,370	2,357	2,349	2,343	2,340
2,405	2,380	2,362	2,348	2,337	2,329	2,302	2,289	2,280	2,275	2,271
2,347	2,321	2,303	2,289	2,278	2,269	2,242	2,229	2,220	2,215	2,211
2,295	2,270	2,251	2,237	2,226	2,217	2,190	2,176	2,167	2,162	2,158
2,249	2,223	2,205	2,190	2,179	2,170	2,142	2,128	2,120	2,114	2,110
2,208	2,182	2,163	2,148	2,137	2,128	2,100	2,086	2,077	2,072	2,067
2,171	2,145	2,125	2,111	2,099	2,090	2,062	2,047	2,039	2,033	2,029
2,137	2,111	2,091	2,077	2,065	2,056	2,027	2,013	2,004	1,998	1,994
2,107	2,080	2,060	2,045	2,034	2,024	1,995	1,981	1,972	1,966	1,961
2,079	2,052	2,032	2,017	2,005	1,996	1,966	1,952	1,942	1,936	1,932
2,053	2,026	2,006	1,991	1,979	1,969	1,940	1,925	1,915	1,909	1,905
2,029	2,002	1,982	1,966	1,954	1,945	1,915	1,900	1,891	1,884	1,880
2,007	1,980	1,959	1,944	1,932	1,922	1,892	1,877	1,867	1,861	1,857
1,987	1,959	1,939	1,923	1,911	1,901	1,871	1,855	1,846	1,840	1,835
1,968	1,940	1,920	1,904	1,892	1,882	1,851	1,835	1,826	1,819	1,815
1,950	1,922	1,902	1,886	1,873	1,863	1,832	1,817	1,807	1,801	1,796
1,934	1,905	1,885	1,869	1,856	1,846	1,815	1,799	1,789	1,783	1,778
1,918	1,890	1,869	1,853	1,840	1,830	1,799	1,783	1,773	1,766	1,762
1,904	1,875	1,854	1,838	1,825	1,815	1,784	1,767	1,757	1,751	1,746
1,890	1,861	1,840	1,824	1,811	1,801	1,769	1,753	1,743	1,736	1,731
1,877	1,848	1,827	1,811	1,798	1,787	1,755	1,739	1,729	1,722	1,717
1,865	1,836	1,815	1,798	1,785	1,775	1,742	1,726	1,716	1,709	1,704
1,854	1,824	1,803	1,786	1,773	1,763	1,730	1,713	1,703	1,696	1,691
1,843	1,813	1,792	1,775	1,762	1,751	1,719	1,702	1,691	1,685	1,680
1,832	1,803	1,781	1,764	1,751	1,741	1,708	1,691	1,680	1,673	1,668
1,823	1,793	1,771	1,754	1,741	1,730	1,697	1,680	1,669	1,662	1,657
1,813	1,783	1,761	1,745	1,731	1,720	1,687	1,670	1,659	1,652	1,647
1,804	1,774	1,752	1,735	1,722	1,711	1,677	1,660	1,649	1,642	1,637
1,796	1,766	1,743	1,726	1,713	1,702	1,668	1,651	1,640	1,633	1,628
1,788	1,757	1,735	1,718	1,705	1,694	1,660	1,642	1,631	1,624	1,619
1,780	1,750	1,727	1,710	1,696	1,685	1,651	1,634	1,623	1,615	1,610
1,772	1,742	1,720	1,702	1,689	1,678	1,643	1,625	1,614	1,607	1,602
1,765	1,735	1,712	1,695	1,681	1,670	1,635	1,618	1,607	1,599	1,594
1,759	1,728	1,705	1,688	1,674	1,663	1,628	1,610	1,599	1,592	1,586
1,752	1,721	1,698	1,681	1,667	1,656	1,621	1,603	1,592	1,584	1,579
1,592	1,558	1,532	1,512	1,496	1,483	1,442	1,420	1,407	1,397	1,391
1,538	1,502	1,475	1,454	1,437	1,423	1,379	1,355	1,340	1,329	1,322
1,511	1,474	1,447	1,425	1,407	1,393	1,346	1,320	1,304	1,293	1,285
1,495	1,457	1,429	1,407	1,389	1,374	1,326	1,299	1,282	1,270	1,261
1,484	1,446	1,417	1,395	1,377	1,361	1,312	1,285	1,267	1,255	1,245
1,476	1,438	1,409	1,386	1,368	1,352	1,302	1,274	1,256	1,243	1,234
1,470	1,432	1,403	1,380	1,361	1,345	1,294	1,266	1,247	1,234	1,224
1,465	1,427	1,398	1,374	1,356	1,340	1,288	1,259	1,241	1,227	1,217
1,462	1,423	1,394	1,370	1,351	1,336	1,284	1,254	1,235	1,222	1,211
1,456	1,417	1,388	1,364	1,345	1,329	1,276	1,246	1,227	1,213	1,202
1,452	1,413	1,383	1,360	1,340	1,324	1,271	1,241	1,221	1,207	1,196
1,449	1,410	1,380	1,356	1,337	1,321	1,267	1,237	1,216	1,202	1,191
1,447	1,408	1,378	1,354	1,334	1,318	1,264	1,233	1,213	1,198	1,187
1,445	1,406	1,376	1,352	1,332	1,316	1,262	1,230	1,210	1,195	1,184

400	450	500	1000
1016,985	1017,126	1017,240	1017,749
39,495	39,496	39,496	39,497
13,916	13,914	13,913	13,908
8,273	8,271	8,270	8,264
6,032	6,030	6,028	6,022
4,866	4,864	4,862	4,856
4,159	4,158	4,156	4,149
3,688	3,686	3,684	3,677
3,351	3,349	3,347	3,340
3,098	3,096	3,094	3,087
2,901	2,899	2,898	2,890
2,744	2,742	2,740	2,733
2,615	2,613	2,611	2,603
2,507	2,505	2,503	2,495
2,415	2,413	2,411	2,403
2,337	2,334	2,333	2,324
2,268	2,266	2,264	2,256
2,208	2,206	2,204	2,195
2,155	2,152	2,150	2,142
2,107	2,105	2,103	2,094
2,064	2,062	2,060	2,051
2,026	2,023	2,021	2,012
1,990	1,988	1,986	1,977
1,958	1,956	1,954	1,945
1,929	1,926	1,924	1,915
1,902	1,899	1,897	1,888
1,877	1,874	1,872	1,862
1,853	1,851	1,848	1,839
1,832	1,829	1,827	1,817
1,811	1,809	1,806	1,797
1,792	1,790	1,788	1,778
1,775	1,772	1,770	1,760
1,758	1,755	1,753	1,743
1,742	1,740	1,737	1,727
1,728	1,725	1,722	1,712
1,714	1,711	1,708	1,698
1,700	1,697	1,695	1,684
1,688	1,685	1,682	1,672
1,676	1,673	1,670	1,660
1,664	1,661	1,659	1,648
1,654	1,651	1,648	1,637
1,643	1,640	1,638	1,627
1,633	1,630	1,628	1,617
1,624	1,621	1,618	1,607
1,615	1,612	1,609	1,598
1,606	1,603	1,600	1,589
1,598	1,595	1,592	1,581
1,590	1,587	1,584	1,573
1,582	1,579	1,576	1,565
1,575	1,572	1,569	1,557
1,385	1,381	1,378	1,363
1,316	1,311	1,307	1,290
1,278	1,273	1,269	1,250
1,255	1,249	1,245	1,224
1,238	1,233	1,228	1,206
1,226	1,220	1,215	1,192
1,217	1,211	1,206	1,182
1,209	1,203	1,198	1,173
1,203	1,197	1,192	1,166
1,194	1,188	1,182	1,156
1,187	1,181	1,175	1,147
1,182	1,175	1,170	1,141
1,178	1,171	1,165	1,136
1,175	1,168	1,162	1,132