Stat 4201 Homework 10

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Question 1

For this problem, I first get the data with etype = 2:

```
colon.2 <- subset(colon, etype == 2)
```

Then I used Kaplan-Meier and Fleming-Harrington method to estimate the curve:

```
fit.kaplan <- survfit(Surv(time, status)~rx, data=colon.2,
                      type = "kaplan-meier")
fit.felming <- survfit(Surv(time, status)~rx, data=colon.2,
                       type = "fleming-harrington")
```

Since the results are quite long, I put them in the appendix.

Question 2

For Kaplan-Meier method, the medians are shown belown:

```
Call: survfit(formula = Surv(time, status) ~ rx, data = colon.2, type = "kaplan-meier")

           records n.max n.start events median 0.95LCL 0.95UCL
rx=Obs         315   315     315    168   2083    1656    2789
rx=Lev         310   310     310    161   2152    1540      NA
rx=Lev+5FU     304   304     304    123     NA    2725      NA
```

For treatment Lev+5FU, since it never gets to the point where s(t) = 0.5, the median for Lev+5FU is NA.

For Fleming-Harrington method, the medians are shown below:

```
Call: survfit(formula = Surv(time, status) ~ rx, data = colon.2, type = "fleming-harring

           records n.max n.start events median 0.95LCL 0.95UCL
rx=Obs         315   315     315    168   2083    1656    2789
rx=Lev         310   310     310    161   2152    1540      NA
rx=Lev+5FU     304   304     304    123     NA    2725      NA
```

For treatment Lev+5FU, since it never gets to the point where s(t) = 0.5, the median for Lev+5FU is NA.

Appendices

The R code is listed below:

```
library(survival)
library(splines)
data(colon)

colon.2 <- subset(colon, etype == 2)

fit.kaplan <- survfit(Surv(time, status)~rx, data=colon.2,
                      type = "kaplan-meier")
fit.felming <- survfit(Surv(time, status)~rx, data=colon.2,
                       type = "fleming-harrington")
# problem 1
summary(fit.kaplan)
summary(fit.felming)

# problem 2
fit.kaplan
fit.felming
```

The survival curve estimated using Kaplan-Meier method:

```
> summary(fit.kaplan)
Call: survfit(formula = Surv(time, status) ~ rx, data = colon.2, type = "kaplan-meier")

                rx=Obs
 time n.risk n.event survival std.err lower 95% CI upper 95% CI
  113    315       1    0.997 0.00317        0.991        1.000
  125    314       1    0.994 0.00448        0.985        1.000
  145    313       1    0.990 0.00547        0.980        1.000
  164    312       1    0.987 0.00631        0.975        1.000
  166    311       1    0.984 0.00704        0.970        0.998
  187    310       1    0.981 0.00770        0.966        0.996
  201    309       1    0.978 0.00831        0.962        0.994
  208    308       1    0.975 0.00886        0.957        0.992
  215    307       1    0.971 0.00939        0.953        0.990
  218    306       1    0.968 0.00988        0.949        0.988
  238    305       1    0.965 0.01034        0.945        0.986
  241    304       1    0.962 0.01079        0.941        0.983
  242    303       1    0.959 0.01121        0.937        0.981
  253    302       1    0.956 0.01161        0.933        0.979
  259    301       2    0.949 0.01237        0.925        0.974
  264    299       1    0.946 0.01273        0.921        0.971
  275    298       1    0.943 0.01308        0.918        0.969
  289    297       1    0.940 0.01341        0.914        0.966
  311    296       1    0.937 0.01374        0.910        0.964
  313    295       1    0.933 0.01405        0.906        0.961
  322    294       1    0.930 0.01436        0.902        0.959
  331    293       1    0.927 0.01466        0.899        0.956
  365    292       1    0.924 0.01495        0.895        0.954
  372    291       1    0.921 0.01523        0.891        0.951
  381    290       1    0.917 0.01550        0.888        0.948
  384    289       2    0.911 0.01603        0.880        0.943
  390    287       1    0.908 0.01629        0.877        0.940
  409    286       1    0.905 0.01654        0.873        0.938
  411    285       1    0.902 0.01678        0.869        0.935
  413    284       2    0.895 0.01726        0.862        0.930
  417    282       1    0.892 0.01748        0.858        0.927
```

421	281	1	0.889	0.01771	0.855	0.924
433	280	1	0.886	0.01793	0.851	0.922
437	279	1	0.883	0.01814	0.848	0.919
438	278	1	0.879	0.01835	0.844	0.916
459	276	1	0.876	0.01856	0.841	0.913
462	275	1	0.873	0.01876	0.837	0.911
464	274	1	0.870	0.01896	0.833	0.908
465	273	2	0.863	0.01935	0.826	0.902
469	271	1	0.860	0.01954	0.823	0.899
474	270	1	0.857	0.01973	0.819	0.897
485	269	1	0.854	0.01991	0.816	0.894
499	268	1	0.851	0.02009	0.812	0.891
506	267	1	0.848	0.02026	0.809	0.888
510	266	1	0.844	0.02044	0.805	0.885
528	265	1	0.841	0.02061	0.802	0.883
537	264	1	0.838	0.02077	0.798	0.880
563	263	2	0.832	0.02110	0.791	0.874
570	261	1	0.828	0.02126	0.788	0.871
576	260	1	0.825	0.02141	0.784	0.868
587	259	1	0.822	0.02157	0.781	0.865
591	258	1	0.819	0.02172	0.777	0.863
594	257	1	0.816	0.02186	0.774	0.860
595	256	1	0.812	0.02201	0.770	0.857
599	255	1	0.809	0.02215	0.767	0.854
612	254	1	0.806	0.02229	0.764	0.851
622	253	1	0.803	0.02243	0.760	0.848
659	252	1	0.800	0.02257	0.757	0.845
663	251	1	0.797	0.02270	0.753	0.842
665	250	1	0.793	0.02283	0.750	0.839
670	249	1	0.790	0.02296	0.746	0.836
673	248	1	0.787	0.02309	0.743	0.834
685	247	1	0.784	0.02322	0.740	0.831
687	246	1	0.781	0.02334	0.736	0.828
692	245	1	0.777	0.02346	0.733	0.825
709	244	1	0.774	0.02358	0.729	0.822
716	243	1	0.771	0.02370	0.726	0.819
717	242	1	0.768	0.02381	0.723	0.816
718	241	1	0.765	0.02393	0.719	0.813

721	240	1	0.761	0.02404	0.716	0.810
743	239	1	0.758	0.02415	0.712	0.807
753	238	1	0.755	0.02425	0.709	0.804
758	237	1	0.752	0.02436	0.706	0.801
760	236	1	0.749	0.02446	0.702	0.798
761	235	1	0.746	0.02457	0.699	0.795
770	234	1	0.742	0.02467	0.696	0.792
774	233	1	0.739	0.02477	0.692	0.789
775	232	1	0.736	0.02486	0.689	0.786
832	231	1	0.733	0.02496	0.685	0.783
833	230	1	0.730	0.02505	0.682	0.780
840	229	1	0.726	0.02515	0.679	0.777
845	228	1	0.723	0.02524	0.675	0.774
854	227	1	0.720	0.02533	0.672	0.771
863	226	1	0.717	0.02541	0.669	0.768
874	225	1	0.714	0.02550	0.665	0.765
883	224	1	0.711	0.02558	0.662	0.762
887	223	1	0.707	0.02567	0.659	0.759
901	222	1	0.704	0.02575	0.655	0.756
924	221	1	0.701	0.02583	0.652	0.753
928	220	1	0.698	0.02591	0.649	0.750
929	219	1	0.695	0.02598	0.645	0.747
936	218	1	0.691	0.02606	0.642	0.744
949	217	1	0.688	0.02613	0.639	0.741
957	216	1	0.685	0.02621	0.636	0.738
961	215	1	0.682	0.02628	0.632	0.735
963	214	1	0.679	0.02635	0.629	0.732
966	213	1	0.675	0.02641	0.626	0.729
976	212	1	0.672	0.02648	0.622	0.726
1021	211	1	0.669	0.02655	0.619	0.723
1031	210	1	0.666	0.02661	0.616	0.720
1048	209	1	0.663	0.02667	0.612	0.717
1070	208	1	0.660	0.02674	0.609	0.714
1079	207	1	0.656	0.02680	0.606	0.711
1083	206	1	0.653	0.02685	0.603	0.708
1101	205	1	0.650	0.02691	0.599	0.705
1133	204	1	0.647	0.02697	0.596	0.702
1134	203	1	0.644	0.02702	0.593	0.699

1136	202	1	0.640	0.02708	0.589	0.696
1139	201	1	0.637	0.02713	0.586	0.693
1159	200	1	0.634	0.02718	0.583	0.690
1166	199	1	0.631	0.02723	0.580	0.687
1178	198	1	0.628	0.02728	0.576	0.683
1195	197	1	0.624	0.02732	0.573	0.680
1198	196	1	0.621	0.02737	0.570	0.677
1209	195	1	0.618	0.02741	0.567	0.674
1216	194	1	0.615	0.02746	0.563	0.671
1230	193	1	0.612	0.02750	0.560	0.668
1237	192	1	0.609	0.02754	0.557	0.665
1246	191	1	0.605	0.02758	0.554	0.662
1262	190	1	0.602	0.02762	0.550	0.659
1272	189	1	0.599	0.02765	0.547	0.656
1290	188	1	0.596	0.02769	0.544	0.653
1295	187	1	0.593	0.02772	0.541	0.650
1304	186	1	0.589	0.02776	0.537	0.646
1313	185	1	0.586	0.02779	0.534	0.643
1314	184	1	0.583	0.02782	0.531	0.640
1327	183	1	0.580	0.02785	0.528	0.637
1363	182	1	0.577	0.02788	0.525	0.634
1375	181	1	0.573	0.02791	0.521	0.631
1434	180	1	0.570	0.02793	0.518	0.628
1437	179	1	0.567	0.02796	0.515	0.625
1447	178	1	0.564	0.02798	0.512	0.622
1482	177	1	0.561	0.02800	0.508	0.618
1530	176	1	0.558	0.02803	0.505	0.615
1548	175	1	0.554	0.02805	0.502	0.612
1656	174	1	0.551	0.02807	0.499	0.609
1679	173	1	0.548	0.02808	0.496	0.606
1692	172	1	0.545	0.02810	0.492	0.603
1723	171	1	0.542	0.02812	0.489	0.600
1745	170	1	0.538	0.02813	0.486	0.597
1772	169	1	0.535	0.02814	0.483	0.593
1788	168	1	0.532	0.02816	0.480	0.590
1790	167	1	0.529	0.02817	0.476	0.587
1818	164	1	0.526	0.02818	0.473	0.584
1875	156	1	0.522	0.02820	0.470	0.581

```
1884    155       1    0.519 0.02822        0.466        0.577
1896    153       1    0.516 0.02824        0.463        0.574
1907    150       1    0.512 0.02826        0.460        0.571
1915    149       1    0.509 0.02828        0.456        0.567
1950    146       1    0.505 0.02830        0.453        0.564
2077    135       1    0.501 0.02833        0.449        0.560
2083    134       1    0.498 0.02837        0.445        0.557
2085    133       1    0.494 0.02840        0.441        0.553
2133    121       1    0.490 0.02846        0.437        0.549
2171    109       1    0.485 0.02855        0.433        0.545
2213     94       1    0.480 0.02871        0.427        0.540
2257     83       1    0.474 0.02894        0.421        0.535
2284     77       1    0.468 0.02921        0.414        0.529
2287     76       1    0.462 0.02947        0.408        0.524
2351     67       1    0.455 0.02983        0.400        0.518
2527     47       1    0.446 0.03072        0.389        0.510
2552     42       1    0.435 0.03177        0.377        0.502
2789     16       1    0.408 0.03975        0.337        0.494

               rx=Lev
time n.risk n.event survival std.err lower 95% CI upper 95% CI
  24    310       1    0.997 0.00322        0.990        1.000
  56    309       1    0.994 0.00455        0.985        1.000
  93    308       1    0.990 0.00556        0.979        1.000
 122    307       1    0.987 0.00641        0.975        1.000
 129    306       1    0.984 0.00715        0.970        0.998
 133    305       1    0.981 0.00782        0.965        0.996
 150    304       1    0.977 0.00844        0.961        0.994
 165    303       1    0.974 0.00901        0.957        0.992
 171    302       2    0.968 0.01004        0.948        0.988
 191    300       1    0.965 0.01051        0.944        0.985
 206    299       1    0.961 0.01096        0.940        0.983
 219    298       2    0.955 0.01179        0.932        0.978
 222    296       1    0.952 0.01219        0.928        0.976
 226    295       1    0.948 0.01257        0.924        0.973
 232    294       1    0.945 0.01293        0.920        0.971
 257    293       1    0.942 0.01328        0.916        0.968
 283    292       1    0.939 0.01362        0.912        0.966
```

314	291	2	0.932	0.01427	0.905	0.961
316	289	1	0.929	0.01458	0.901	0.958
323	288	1	0.926	0.01489	0.897	0.955
342	287	1	0.923	0.01518	0.893	0.953
343	286	1	0.919	0.01546	0.890	0.950
349	285	1	0.916	0.01574	0.886	0.948
355	284	1	0.913	0.01602	0.882	0.945
356	283	1	0.910	0.01628	0.878	0.942
362	282	1	0.906	0.01654	0.875	0.939
366	281	1	0.903	0.01679	0.871	0.937
376	280	1	0.900	0.01704	0.867	0.934
382	279	1	0.897	0.01728	0.864	0.931
402	278	1	0.894	0.01752	0.860	0.929
406	277	1	0.890	0.01775	0.856	0.926
420	276	1	0.887	0.01797	0.853	0.923
422	275	1	0.884	0.01820	0.849	0.920
430	274	1	0.881	0.01841	0.845	0.917
438	273	1	0.877	0.01863	0.842	0.915
439	272	1	0.874	0.01884	0.838	0.912
443	271	1	0.871	0.01904	0.834	0.909
444	270	1	0.868	0.01924	0.831	0.906
472	269	1	0.865	0.01944	0.827	0.903
475	268	1	0.861	0.01963	0.824	0.901
486	267	1	0.858	0.01982	0.820	0.898
499	266	1	0.855	0.02001	0.817	0.895
512	265	1	0.852	0.02019	0.813	0.892
522	264	1	0.848	0.02037	0.809	0.889
546	263	1	0.845	0.02055	0.806	0.886
553	262	1	0.842	0.02072	0.802	0.884
559	261	1	0.839	0.02089	0.799	0.881
569	260	1	0.835	0.02106	0.795	0.878
573	259	1	0.832	0.02122	0.792	0.875
580	258	1	0.829	0.02138	0.788	0.872
582	257	1	0.826	0.02154	0.785	0.869
589	256	1	0.823	0.02170	0.781	0.866
602	255	2	0.816	0.02200	0.774	0.860
608	253	1	0.813	0.02215	0.771	0.857
628	252	1	0.810	0.02230	0.767	0.855

629	251	1	0.806	0.02244	0.764	0.852
642	250	1	0.803	0.02258	0.760	0.849
643	249	1	0.800	0.02272	0.757	0.846
647	248	1	0.797	0.02285	0.753	0.843
664	247	1	0.794	0.02299	0.750	0.840
669	246	1	0.790	0.02312	0.746	0.837
675	245	1	0.787	0.02325	0.743	0.834
678	244	1	0.784	0.02338	0.739	0.831
684	243	1	0.781	0.02350	0.736	0.828
706	242	1	0.777	0.02363	0.732	0.825
708	241	1	0.774	0.02375	0.729	0.822
709	240	1	0.771	0.02387	0.726	0.819
720	239	1	0.768	0.02398	0.722	0.816
723	238	1	0.765	0.02410	0.719	0.813
729	237	1	0.761	0.02421	0.715	0.810
730	236	1	0.758	0.02432	0.712	0.807
739	235	1	0.755	0.02443	0.708	0.804
743	234	1	0.752	0.02454	0.705	0.801
755	233	1	0.748	0.02465	0.702	0.798
759	232	2	0.742	0.02485	0.695	0.792
764	230	1	0.739	0.02495	0.691	0.789
766	229	1	0.735	0.02505	0.688	0.786
795	228	1	0.732	0.02515	0.685	0.783
797	227	1	0.729	0.02524	0.681	0.780
806	226	1	0.726	0.02534	0.678	0.777
833	225	1	0.723	0.02543	0.674	0.774
846	224	1	0.719	0.02552	0.671	0.771
858	223	1	0.716	0.02561	0.668	0.768
875	222	1	0.713	0.02569	0.664	0.765
885	221	1	0.710	0.02578	0.661	0.762
890	220	1	0.706	0.02586	0.658	0.759
902	219	1	0.703	0.02595	0.654	0.756
905	218	1	0.700	0.02603	0.651	0.753
909	217	1	0.697	0.02611	0.647	0.750
938	216	1	0.694	0.02618	0.644	0.747
939	215	1	0.690	0.02626	0.641	0.744
940	214	1	0.687	0.02633	0.637	0.741
942	213	1	0.684	0.02641	0.634	0.738

944	212	1	0.681	0.02648	0.631	0.735
952	211	1	0.677	0.02655	0.627	0.732
961	210	2	0.671	0.02669	0.621	0.725
968	208	1	0.668	0.02675	0.617	0.722
969	207	1	0.665	0.02682	0.614	0.719
986	206	1	0.661	0.02688	0.611	0.716
997	205	2	0.655	0.02700	0.604	0.710
1018	203	1	0.652	0.02706	0.601	0.707
1034	202	1	0.648	0.02712	0.597	0.704
1037	201	1	0.645	0.02717	0.594	0.701
1041	200	1	0.642	0.02723	0.591	0.698
1046	199	1	0.639	0.02728	0.587	0.694
1055	198	1	0.635	0.02734	0.584	0.691
1061	197	1	0.632	0.02739	0.581	0.688
1092	196	1	0.629	0.02744	0.577	0.685
1103	195	1	0.626	0.02748	0.574	0.682
1105	194	1	0.623	0.02753	0.571	0.679
1112	193	1	0.619	0.02758	0.568	0.676
1117	192	1	0.616	0.02762	0.564	0.673
1122	191	1	0.613	0.02766	0.561	0.670
1135	190	1	0.610	0.02771	0.558	0.666
1145	189	1	0.606	0.02775	0.554	0.663
1154	188	1	0.603	0.02779	0.551	0.660
1161	187	1	0.600	0.02782	0.548	0.657
1178	186	1	0.597	0.02786	0.545	0.654
1186	185	1	0.594	0.02790	0.541	0.651
1191	184	1	0.590	0.02793	0.538	0.648
1207	183	1	0.587	0.02796	0.535	0.645
1215	182	1	0.584	0.02800	0.531	0.641
1219	181	1	0.581	0.02803	0.528	0.638
1252	180	1	0.577	0.02806	0.525	0.635
1262	179	1	0.574	0.02808	0.522	0.632
1295	178	1	0.571	0.02811	0.518	0.629
1325	177	1	0.568	0.02814	0.515	0.626
1399	176	1	0.565	0.02816	0.512	0.622
1405	175	1	0.561	0.02818	0.509	0.619
1434	174	1	0.558	0.02821	0.505	0.616
1509	173	1	0.555	0.02823	0.502	0.613

```
1540    171       1    0.552 0.02825        0.499        0.610
1548    170       1    0.548 0.02827        0.496        0.607
1568    169       1    0.545 0.02829        0.492        0.603
1652    168       1    0.542 0.02830        0.489        0.600
1709    167       1    0.539 0.02832        0.486        0.597
1768    166       1    0.535 0.02833        0.483        0.594
1829    163       1    0.532 0.02835        0.479        0.591
1839    161       1    0.529 0.02837        0.476        0.587
1850    160       1    0.525 0.02838        0.473        0.584
1851    159       1    0.522 0.02839        0.469        0.581
1879    157       1    0.519 0.02841        0.466        0.578
1885    155       1    0.515 0.02842        0.463        0.574
1932    152       1    0.512 0.02843        0.459        0.571
2023    144       1    0.509 0.02846        0.456        0.568
2079    138       1    0.505 0.02849        0.452        0.564
2128    131       1    0.501 0.02853        0.448        0.560
2152    122       1    0.497 0.02859        0.444        0.556
2171    118       1    0.493 0.02866        0.440        0.552
2458     65       1    0.485 0.02920        0.431        0.546
2593     42       1    0.474 0.03071        0.417        0.538
2683     33       1    0.459 0.03296        0.399        0.529
2718     26       1    0.442 0.03611        0.376        0.518
2910      9       1    0.392 0.05630        0.296        0.520

               rx=Lev+5FU
time n.risk n.event survival std.err lower 95% CI upper 95% CI
  23    304       1    0.997 0.00328        0.990        1.000
  34    303       1    0.993 0.00464        0.984        1.000
  45    302       1    0.990 0.00567        0.979        1.000
  52    301       1    0.987 0.00654        0.974        1.000
  79    300       1    0.984 0.00729        0.969        0.998
 127    299       1    0.980 0.00798        0.965        0.996
 138    298       1    0.977 0.00860        0.960        0.994
 141    297       1    0.974 0.00918        0.956        0.992
 144    296       1    0.970 0.00972        0.952        0.990
 186    295       1    0.967 0.01023        0.947        0.987
 251    294       1    0.964 0.01071        0.943        0.985
 269    293       1    0.961 0.01117        0.939        0.983
```

271	292	1	0.957	0.01160	0.935	0.980
274	291	1	0.954	0.01202	0.931	0.978
276	290	1	0.951	0.01242	0.927	0.975
279	289	1	0.947	0.01281	0.923	0.973
283	288	1	0.944	0.01318	0.919	0.970
293	287	1	0.941	0.01354	0.915	0.968
302	286	1	0.937	0.01388	0.911	0.965
304	285	1	0.934	0.01422	0.907	0.962
324	284	1	0.931	0.01454	0.903	0.960
326	283	1	0.928	0.01486	0.899	0.957
340	282	1	0.924	0.01517	0.895	0.955
355	281	1	0.921	0.01547	0.891	0.952
363	280	1	0.918	0.01576	0.887	0.949
389	279	1	0.914	0.01604	0.884	0.946
400	278	1	0.911	0.01632	0.880	0.944
428	277	1	0.908	0.01659	0.876	0.941
430	276	1	0.905	0.01685	0.872	0.938
441	275	1	0.901	0.01711	0.868	0.935
448	274	1	0.898	0.01736	0.865	0.933
454	273	1	0.895	0.01760	0.861	0.930
460	272	1	0.891	0.01784	0.857	0.927
484	271	1	0.888	0.01808	0.853	0.924
490	270	1	0.885	0.01831	0.850	0.921
498	269	1	0.882	0.01853	0.846	0.919
499	268	1	0.878	0.01875	0.842	0.916
503	267	1	0.875	0.01897	0.839	0.913
529	266	1	0.872	0.01918	0.835	0.910
550	265	1	0.868	0.01939	0.831	0.907
576	264	1	0.865	0.01959	0.828	0.904
578	263	1	0.862	0.01979	0.824	0.902
580	262	1	0.859	0.01999	0.820	0.899
583	261	1	0.855	0.02018	0.817	0.896
592	260	1	0.852	0.02037	0.813	0.893
601	259	1	0.849	0.02055	0.809	0.890
603	258	1	0.845	0.02074	0.806	0.887
609	257	1	0.842	0.02091	0.802	0.884
614	256	1	0.839	0.02109	0.798	0.881
616	255	1	0.836	0.02126	0.795	0.878

641	254	1	0.832	0.02143	0.791	0.875
642	253	1	0.829	0.02160	0.788	0.872
643	252	1	0.826	0.02176	0.784	0.869
666	251	1	0.822	0.02192	0.781	0.866
674	250	1	0.819	0.02208	0.777	0.864
692	249	2	0.812	0.02239	0.770	0.858
693	247	1	0.809	0.02254	0.766	0.855
696	246	1	0.806	0.02268	0.763	0.852
712	245	1	0.803	0.02283	0.759	0.849
736	244	1	0.799	0.02297	0.756	0.846
765	243	1	0.796	0.02311	0.752	0.843
802	242	2	0.789	0.02338	0.745	0.837
806	240	1	0.786	0.02352	0.741	0.834
811	239	1	0.783	0.02365	0.738	0.831
844	238	1	0.780	0.02377	0.734	0.828
862	237	1	0.776	0.02390	0.731	0.825
884	236	1	0.773	0.02402	0.727	0.822
887	235	2	0.766	0.02427	0.720	0.816
905	233	1	0.763	0.02438	0.717	0.812
911	232	1	0.760	0.02450	0.713	0.809
916	231	1	0.757	0.02461	0.710	0.806
961	230	1	0.753	0.02473	0.706	0.803
977	229	1	0.750	0.02483	0.703	0.800
993	228	1	0.747	0.02494	0.699	0.797
1022	227	1	0.743	0.02505	0.696	0.794
1138	226	1	0.740	0.02515	0.692	0.791
1145	225	1	0.737	0.02526	0.689	0.788
1151	224	1	0.734	0.02536	0.686	0.785
1193	223	1	0.730	0.02545	0.682	0.782
1201	222	1	0.727	0.02555	0.679	0.779
1212	221	1	0.724	0.02565	0.675	0.776
1246	220	1	0.720	0.02574	0.672	0.773
1273	219	1	0.717	0.02583	0.668	0.770
1276	218	2	0.711	0.02601	0.661	0.763
1279	216	1	0.707	0.02610	0.658	0.760
1302	214	1	0.704	0.02618	0.654	0.757
1306	213	1	0.701	0.02627	0.651	0.754
1365	212	1	0.697	0.02635	0.648	0.751

```
 1387    211       1    0.694 0.02643        0.644        0.748
 1388    210       1    0.691 0.02651        0.641        0.745
 1424    208       1    0.687 0.02659        0.637        0.742
 1439    207       1    0.684 0.02667        0.634        0.738
 1446    206       1    0.681 0.02675        0.630        0.735
 1495    204       1    0.677 0.02682        0.627        0.732
 1511    203       1    0.674 0.02690        0.623        0.729
 1521    202       1    0.671 0.02697        0.620        0.726
 1550    201       1    0.667 0.02704        0.616        0.723
 1607    200       1    0.664 0.02711        0.613        0.719
 1620    199       1    0.661 0.02718        0.610        0.716
 1637    198       1    0.657 0.02725        0.606        0.713
 1668    197       1    0.654 0.02731        0.603        0.710
 1671    196       1    0.651 0.02738        0.599        0.707
 1752    195       1    0.647 0.02744        0.596        0.703
 1767    194       1    0.644 0.02750        0.592        0.700
 1783    193       1    0.641 0.02756        0.589        0.697
 1798    192       1    0.637 0.02762        0.585        0.694
 1812    190       1    0.634 0.02767        0.582        0.691
 1831    185       1    0.631 0.02774        0.579        0.687
 1856    183       1    0.627 0.02780        0.575        0.684
 1995    172       1    0.623 0.02787        0.571        0.681
 2021    167       1    0.620 0.02796        0.567        0.677
 2052    161       1    0.616 0.02805        0.563        0.673
 2127    146       1    0.612 0.02817        0.559        0.669
 2174    136       1    0.607 0.02832        0.554        0.665
 2197    127       1    0.602 0.02850        0.549        0.661
 2318    102       1    0.597 0.02882        0.543        0.656
 2482     72       1    0.588 0.02959        0.533        0.649
 2542     53       1    0.577 0.03104        0.519        0.641
 2725     35       1    0.561 0.03426        0.497        0.632
```

The survival curve estimated using Fleming-Harrington method:

```
> summary(fit.felming)
Call: survfit(formula = Surv(time, status) ~ rx, data = colon.2, type = "fleming-harring

                rx=Obs
```

time	n.risk	n.event	survival	std.err	lower 95% CI	upper 95% CI
113	315	1	0.997	0.00317	0.991	1.000
125	314	1	0.994	0.00448	0.985	1.000
145	313	1	0.990	0.00547	0.980	1.000
164	312	1	0.987	0.00631	0.975	1.000
166	311	1	0.984	0.00704	0.970	0.998
187	310	1	0.981	0.00770	0.966	0.996
201	309	1	0.978	0.00831	0.962	0.994
208	308	1	0.975	0.00886	0.957	0.992
215	307	1	0.971	0.00939	0.953	0.990
218	306	1	0.968	0.00988	0.949	0.988
238	305	1	0.965	0.01034	0.945	0.986
241	304	1	0.962	0.01079	0.941	0.983
242	303	1	0.959	0.01121	0.937	0.981
253	302	1	0.956	0.01161	0.933	0.979
259	301	2	0.949	0.01237	0.925	0.974
264	299	1	0.946	0.01273	0.921	0.971
275	298	1	0.943	0.01308	0.918	0.969
289	297	1	0.940	0.01342	0.914	0.966
311	296	1	0.937	0.01374	0.910	0.964
313	295	1	0.933	0.01406	0.906	0.961
322	294	1	0.930	0.01436	0.903	0.959
331	293	1	0.927	0.01466	0.899	0.956
365	292	1	0.924	0.01495	0.895	0.954
372	291	1	0.921	0.01523	0.891	0.951
381	290	1	0.918	0.01551	0.888	0.949
384	289	2	0.911	0.01604	0.880	0.943
390	287	1	0.908	0.01629	0.877	0.941
409	286	1	0.905	0.01654	0.873	0.938
411	285	1	0.902	0.01679	0.869	0.935
413	284	2	0.895	0.01726	0.862	0.930
417	282	1	0.892	0.01749	0.859	0.927
421	281	1	0.889	0.01771	0.855	0.924
433	280	1	0.886	0.01793	0.851	0.922
437	279	1	0.883	0.01815	0.848	0.919
438	278	1	0.880	0.01836	0.844	0.916
459	276	1	0.876	0.01856	0.841	0.914
462	275	1	0.873	0.01877	0.837	0.911

464	274	1	0.870	0.01897	0.834	0.908
465	273	2	0.864	0.01936	0.827	0.902
469	271	1	0.861	0.01955	0.823	0.900
474	270	1	0.857	0.01973	0.820	0.897
485	269	1	0.854	0.01992	0.816	0.894
499	268	1	0.851	0.02010	0.812	0.891
506	267	1	0.848	0.02027	0.809	0.888
510	266	1	0.845	0.02044	0.805	0.886
528	265	1	0.841	0.02061	0.802	0.883
537	264	1	0.838	0.02078	0.798	0.880
563	263	2	0.832	0.02111	0.792	0.874
570	261	1	0.829	0.02127	0.788	0.871
576	260	1	0.826	0.02142	0.785	0.869
587	259	1	0.822	0.02157	0.781	0.866
591	258	1	0.819	0.02173	0.778	0.863
594	257	1	0.816	0.02187	0.774	0.860
595	256	1	0.813	0.02202	0.771	0.857
599	255	1	0.810	0.02216	0.767	0.854
612	254	1	0.806	0.02230	0.764	0.851
622	253	1	0.803	0.02244	0.760	0.848
659	252	1	0.800	0.02258	0.757	0.846
663	251	1	0.797	0.02271	0.754	0.843
665	250	1	0.794	0.02284	0.750	0.840
670	249	1	0.791	0.02297	0.747	0.837
673	248	1	0.787	0.02310	0.743	0.834
685	247	1	0.784	0.02323	0.740	0.831
687	246	1	0.781	0.02335	0.737	0.828
692	245	1	0.778	0.02347	0.733	0.825
709	244	1	0.775	0.02359	0.730	0.822
716	243	1	0.771	0.02371	0.726	0.819
717	242	1	0.768	0.02382	0.723	0.816
718	241	1	0.765	0.02394	0.720	0.813
721	240	1	0.762	0.02405	0.716	0.811
743	239	1	0.759	0.02416	0.713	0.808
753	238	1	0.756	0.02427	0.709	0.805
758	237	1	0.752	0.02437	0.706	0.802
760	236	1	0.749	0.02448	0.703	0.799
761	235	1	0.746	0.02458	0.699	0.796

770	234	1	0.743	0.02468	0.696	0.793
774	233	1	0.740	0.02478	0.693	0.790
775	232	1	0.736	0.02488	0.689	0.787
832	231	1	0.733	0.02498	0.686	0.784
833	230	1	0.730	0.02507	0.683	0.781
840	229	1	0.727	0.02516	0.679	0.778
845	228	1	0.724	0.02525	0.676	0.775
854	227	1	0.721	0.02534	0.673	0.772
863	226	1	0.717	0.02543	0.669	0.769
874	225	1	0.714	0.02552	0.666	0.766
883	224	1	0.711	0.02560	0.663	0.763
887	223	1	0.708	0.02569	0.659	0.760
901	222	1	0.705	0.02577	0.656	0.757
924	221	1	0.701	0.02585	0.653	0.754
928	220	1	0.698	0.02593	0.649	0.751
929	219	1	0.695	0.02600	0.646	0.748
936	218	1	0.692	0.02608	0.643	0.745
949	217	1	0.689	0.02615	0.639	0.742
957	216	1	0.686	0.02623	0.636	0.739
961	215	1	0.682	0.02630	0.633	0.736
963	214	1	0.679	0.02637	0.629	0.733
966	213	1	0.676	0.02644	0.626	0.730
976	212	1	0.673	0.02650	0.623	0.727
1021	211	1	0.670	0.02657	0.620	0.724
1031	210	1	0.666	0.02663	0.616	0.721
1048	209	1	0.663	0.02670	0.613	0.718
1070	208	1	0.660	0.02676	0.610	0.715
1079	207	1	0.657	0.02682	0.606	0.712
1083	206	1	0.654	0.02688	0.603	0.709
1101	205	1	0.651	0.02694	0.600	0.706
1133	204	1	0.647	0.02699	0.597	0.703
1134	203	1	0.644	0.02705	0.593	0.699
1136	202	1	0.641	0.02710	0.590	0.696
1139	201	1	0.638	0.02715	0.587	0.693
1159	200	1	0.635	0.02720	0.584	0.690
1166	199	1	0.631	0.02725	0.580	0.687
1178	198	1	0.628	0.02730	0.577	0.684
1195	197	1	0.625	0.02735	0.574	0.681

1198	196	1	0.622	0.02740	0.570	0.678
1209	195	1	0.619	0.02744	0.567	0.675
1216	194	1	0.616	0.02749	0.564	0.672
1230	193	1	0.612	0.02753	0.561	0.669
1237	192	1	0.609	0.02757	0.558	0.666
1246	191	1	0.606	0.02761	0.554	0.663
1262	190	1	0.603	0.02765	0.551	0.660
1272	189	1	0.600	0.02769	0.548	0.656
1290	188	1	0.596	0.02772	0.545	0.653
1295	187	1	0.593	0.02776	0.541	0.650
1304	186	1	0.590	0.02779	0.538	0.647
1313	185	1	0.587	0.02782	0.535	0.644
1314	184	1	0.584	0.02785	0.532	0.641
1327	183	1	0.581	0.02788	0.528	0.638
1363	182	1	0.577	0.02791	0.525	0.635
1375	181	1	0.574	0.02794	0.522	0.632
1434	180	1	0.571	0.02797	0.519	0.629
1437	179	1	0.568	0.02799	0.516	0.625
1447	178	1	0.565	0.02802	0.512	0.622
1482	177	1	0.561	0.02804	0.509	0.619
1530	176	1	0.558	0.02806	0.506	0.616
1548	175	1	0.555	0.02808	0.503	0.613
1656	174	1	0.552	0.02810	0.500	0.610
1679	173	1	0.549	0.02812	0.496	0.607
1692	172	1	0.546	0.02814	0.493	0.604
1723	171	1	0.542	0.02816	0.490	0.600
1745	170	1	0.539	0.02817	0.487	0.597
1772	169	1	0.536	0.02819	0.484	0.594
1788	168	1	0.533	0.02820	0.480	0.591
1790	167	1	0.530	0.02821	0.477	0.588
1818	164	1	0.526	0.02822	0.474	0.585
1875	156	1	0.523	0.02824	0.471	0.581
1884	155	1	0.520	0.02826	0.467	0.578
1896	153	1	0.516	0.02828	0.464	0.575
1907	150	1	0.513	0.02830	0.460	0.571
1915	149	1	0.509	0.02832	0.457	0.568
1950	146	1	0.506	0.02834	0.453	0.565
2077	135	1	0.502	0.02838	0.450	0.561

```
2083    134       1    0.499 0.02842        0.446        0.557
2085    133       1    0.495 0.02845        0.442        0.554
2133    121       1    0.491 0.02851        0.438        0.550
2171    109       1    0.486 0.02860        0.433        0.546
2213     94       1    0.481 0.02876        0.428        0.541
2257     83       1    0.475 0.02900        0.422        0.536
2284     77       1    0.469 0.02927        0.415        0.530
2287     76       1    0.463 0.02953        0.409        0.525
2351     67       1    0.456 0.02989        0.401        0.519
2527     47       1    0.447 0.03080        0.390        0.511
2552     42       1    0.436 0.03186        0.378        0.503
2789     16       1    0.410 0.03994        0.338        0.496

               rx=Lev
time n.risk n.event survival std.err lower 95% CI upper 95% CI
  24    310       1    0.997 0.00322        0.990        1.000
  56    309       1    0.994 0.00455        0.985        1.000
  93    308       1    0.990 0.00556        0.980        1.000
 122    307       1    0.987 0.00641        0.975        1.000
 129    306       1    0.984 0.00715        0.970        0.998
 133    305       1    0.981 0.00782        0.965        0.996
 150    304       1    0.977 0.00844        0.961        0.994
 165    303       1    0.974 0.00901        0.957        0.992
 171    302       2    0.968 0.01004        0.948        0.988
 191    300       1    0.965 0.01051        0.944        0.985
 206    299       1    0.961 0.01096        0.940        0.983
 219    298       2    0.955 0.01180        0.932        0.978
 222    296       1    0.952 0.01219        0.928        0.976
 226    295       1    0.948 0.01257        0.924        0.973
 232    294       1    0.945 0.01293        0.920        0.971
 257    293       1    0.942 0.01328        0.916        0.968
 283    292       1    0.939 0.01362        0.913        0.966
 314    291       2    0.932 0.01428        0.905        0.961
 316    289       1    0.929 0.01459        0.901        0.958
 323    288       1    0.926 0.01489        0.897        0.956
 342    287       1    0.923 0.01518        0.893        0.953
 343    286       1    0.920 0.01547        0.890        0.950
 349    285       1    0.916 0.01575        0.886        0.948
```

355	284	1	0.913	0.01602	0.882	0.945
356	283	1	0.910	0.01628	0.878	0.942
362	282	1	0.907	0.01654	0.875	0.940
366	281	1	0.903	0.01680	0.871	0.937
376	280	1	0.900	0.01704	0.867	0.934
382	279	1	0.897	0.01728	0.864	0.931
402	278	1	0.894	0.01752	0.860	0.929
406	277	1	0.891	0.01775	0.856	0.926
420	276	1	0.887	0.01798	0.853	0.923
422	275	1	0.884	0.01820	0.849	0.920
430	274	1	0.881	0.01842	0.845	0.918
438	273	1	0.878	0.01863	0.842	0.915
439	272	1	0.874	0.01884	0.838	0.912
443	271	1	0.871	0.01905	0.835	0.909
444	270	1	0.868	0.01925	0.831	0.907
472	269	1	0.865	0.01944	0.827	0.904
475	268	1	0.862	0.01964	0.824	0.901
486	267	1	0.858	0.01983	0.820	0.898
499	266	1	0.855	0.02001	0.817	0.895
512	265	1	0.852	0.02020	0.813	0.892
522	264	1	0.849	0.02038	0.810	0.890
546	263	1	0.845	0.02055	0.806	0.887
553	262	1	0.842	0.02073	0.803	0.884
559	261	1	0.839	0.02090	0.799	0.881
569	260	1	0.836	0.02106	0.795	0.878
573	259	1	0.833	0.02123	0.792	0.875
580	258	1	0.829	0.02139	0.788	0.872
582	257	1	0.826	0.02155	0.785	0.869
589	256	1	0.823	0.02171	0.781	0.867
602	255	2	0.816	0.02201	0.774	0.861
608	253	1	0.813	0.02216	0.771	0.858
628	252	1	0.810	0.02231	0.767	0.855
629	251	1	0.807	0.02245	0.764	0.852
642	250	1	0.804	0.02259	0.761	0.849
643	249	1	0.800	0.02273	0.757	0.846
647	248	1	0.797	0.02287	0.754	0.843
664	247	1	0.794	0.02300	0.750	0.840
669	246	1	0.791	0.02313	0.747	0.837

675	245	1	0.787	0.02326	0.743	0.834
678	244	1	0.784	0.02339	0.740	0.831
684	243	1	0.781	0.02351	0.736	0.829
706	242	1	0.778	0.02364	0.733	0.826
708	241	1	0.775	0.02376	0.729	0.823
709	240	1	0.771	0.02388	0.726	0.820
720	239	1	0.768	0.02400	0.723	0.817
723	238	1	0.765	0.02411	0.719	0.814
729	237	1	0.762	0.02423	0.716	0.811
730	236	1	0.758	0.02434	0.712	0.808
739	235	1	0.755	0.02445	0.709	0.805
743	234	1	0.752	0.02455	0.705	0.802
755	233	1	0.749	0.02466	0.702	0.799
759	232	2	0.742	0.02487	0.695	0.793
764	230	1	0.739	0.02497	0.692	0.790
766	229	1	0.736	0.02507	0.688	0.787
795	228	1	0.733	0.02516	0.685	0.784
797	227	1	0.730	0.02526	0.682	0.781
806	226	1	0.726	0.02535	0.678	0.778
833	225	1	0.723	0.02545	0.675	0.775
846	224	1	0.720	0.02554	0.672	0.772
858	223	1	0.717	0.02563	0.668	0.769
875	222	1	0.713	0.02571	0.665	0.766
885	221	1	0.710	0.02580	0.661	0.763
890	220	1	0.707	0.02588	0.658	0.760
902	219	1	0.704	0.02597	0.655	0.757
905	218	1	0.701	0.02605	0.651	0.753
909	217	1	0.697	0.02613	0.648	0.750
938	216	1	0.694	0.02620	0.645	0.747
939	215	1	0.691	0.02628	0.641	0.744
940	214	1	0.688	0.02636	0.638	0.741
942	213	1	0.684	0.02643	0.635	0.738
944	212	1	0.681	0.02650	0.631	0.735
952	211	1	0.678	0.02657	0.628	0.732
961	210	2	0.672	0.02671	0.621	0.726
968	208	1	0.668	0.02678	0.618	0.723
969	207	1	0.665	0.02684	0.615	0.720
986	206	1	0.662	0.02690	0.611	0.717

997	205	2	0.655	0.02703	0.605	0.711
1018	203	1	0.652	0.02709	0.601	0.708
1034	202	1	0.649	0.02715	0.598	0.704
1037	201	1	0.646	0.02720	0.595	0.701
1041	200	1	0.643	0.02726	0.591	0.698
1046	199	1	0.639	0.02731	0.588	0.695
1055	198	1	0.636	0.02736	0.585	0.692
1061	197	1	0.633	0.02742	0.581	0.689
1092	196	1	0.630	0.02747	0.578	0.686
1103	195	1	0.626	0.02751	0.575	0.683
1105	194	1	0.623	0.02756	0.572	0.680
1112	193	1	0.620	0.02761	0.568	0.677
1117	192	1	0.617	0.02765	0.565	0.673
1122	191	1	0.614	0.02770	0.562	0.670
1135	190	1	0.610	0.02774	0.558	0.667
1145	189	1	0.607	0.02778	0.555	0.664
1154	188	1	0.604	0.02782	0.552	0.661
1161	187	1	0.601	0.02786	0.549	0.658
1178	186	1	0.597	0.02789	0.545	0.655
1186	185	1	0.594	0.02793	0.542	0.652
1191	184	1	0.591	0.02797	0.539	0.648
1207	183	1	0.588	0.02800	0.535	0.645
1215	182	1	0.585	0.02803	0.532	0.642
1219	181	1	0.581	0.02806	0.529	0.639
1252	180	1	0.578	0.02809	0.526	0.636
1262	179	1	0.575	0.02812	0.522	0.633
1295	178	1	0.572	0.02815	0.519	0.630
1325	177	1	0.569	0.02817	0.516	0.626
1399	176	1	0.565	0.02820	0.513	0.623
1405	175	1	0.562	0.02822	0.509	0.620
1434	174	1	0.559	0.02825	0.506	0.617
1509	173	1	0.556	0.02827	0.503	0.614
1540	171	1	0.552	0.02829	0.500	0.611
1548	170	1	0.549	0.02831	0.496	0.608
1568	169	1	0.546	0.02833	0.493	0.604
1652	168	1	0.543	0.02834	0.490	0.601
1709	167	1	0.539	0.02836	0.487	0.598
1768	166	1	0.536	0.02838	0.483	0.595

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1829    163       1    0.533 0.02839        0.480        0.592
1839    161       1    0.530 0.02841        0.477        0.588
1850    160       1    0.526 0.02842        0.473        0.585
1851    159       1    0.523 0.02844        0.470        0.582
1879    157       1    0.520 0.02845        0.467        0.579
1885    155       1    0.516 0.02847        0.463        0.575
1932    152       1    0.513 0.02848        0.460        0.572
2023    144       1    0.509 0.02851        0.456        0.568
2079    138       1    0.506 0.02854        0.453        0.565
2128    131       1    0.502 0.02858        0.449        0.561
2152    122       1    0.498 0.02864        0.445        0.557
2171    118       1    0.494 0.02871        0.440        0.553
2458     65       1    0.486 0.02926        0.432        0.547
2593     42       1    0.475 0.03077        0.418        0.539
2683     33       1    0.460 0.03305        0.400        0.530
2718     26       1    0.443 0.03624        0.377        0.520
2910      9       1    0.396 0.05688        0.299        0.525

               rx=Lev+5FU
time n.risk n.event survival std.err lower 95% CI upper 95% CI
  23    304       1    0.997 0.00328        0.990        1.000
  34    303       1    0.993 0.00464        0.984        1.000
  45    302       1    0.990 0.00567        0.979        1.000
  52    301       1    0.987 0.00654        0.974        1.000
  79    300       1    0.984 0.00729        0.969        0.998
 127    299       1    0.980 0.00798        0.965        0.996
 138    298       1    0.977 0.00860        0.960        0.994
 141    297       1    0.974 0.00918        0.956        0.992
 144    296       1    0.970 0.00972        0.952        0.990
 186    295       1    0.967 0.01023        0.947        0.987
 251    294       1    0.964 0.01071        0.943        0.985
 269    293       1    0.961 0.01117        0.939        0.983
 271    292       1    0.957 0.01160        0.935        0.980
 274    291       1    0.954 0.01202        0.931        0.978
 276    290       1    0.951 0.01242        0.927        0.975
 279    289       1    0.947 0.01281        0.923        0.973
 283    288       1    0.944 0.01318        0.919        0.970
 293    287       1    0.941 0.01354        0.915        0.968
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302	286	1	0.938	0.01388	0.911	0.965
304	285	1	0.934	0.01422	0.907	0.963
324	284	1	0.931	0.01455	0.903	0.960
326	283	1	0.928	0.01486	0.899	0.957
340	282	1	0.924	0.01517	0.895	0.955
355	281	1	0.921	0.01547	0.891	0.952
363	280	1	0.918	0.01576	0.888	0.949
389	279	1	0.915	0.01604	0.884	0.947
400	278	1	0.911	0.01632	0.880	0.944
428	277	1	0.908	0.01659	0.876	0.941
430	276	1	0.905	0.01685	0.872	0.938
441	275	1	0.901	0.01711	0.869	0.936
448	274	1	0.898	0.01736	0.865	0.933
454	273	1	0.895	0.01760	0.861	0.930
460	272	1	0.892	0.01785	0.857	0.927
484	271	1	0.888	0.01808	0.854	0.924
490	270	1	0.885	0.01831	0.850	0.922
498	269	1	0.882	0.01854	0.846	0.919
499	268	1	0.878	0.01876	0.842	0.916
503	267	1	0.875	0.01897	0.839	0.913
529	266	1	0.872	0.01918	0.835	0.910
550	265	1	0.869	0.01939	0.831	0.907
576	264	1	0.865	0.01960	0.828	0.905
578	263	1	0.862	0.01980	0.824	0.902
580	262	1	0.859	0.01999	0.820	0.899
583	261	1	0.856	0.02018	0.817	0.896
592	260	1	0.852	0.02037	0.813	0.893
601	259	1	0.849	0.02056	0.810	0.890
603	258	1	0.846	0.02074	0.806	0.887
609	257	1	0.842	0.02092	0.802	0.884
614	256	1	0.839	0.02110	0.799	0.881
616	255	1	0.836	0.02127	0.795	0.879
641	254	1	0.833	0.02144	0.792	0.876
642	253	1	0.829	0.02160	0.788	0.873
643	252	1	0.826	0.02177	0.784	0.870
666	251	1	0.823	0.02193	0.781	0.867
674	250	1	0.819	0.02209	0.777	0.864
692	249	2	0.813	0.02239	0.770	0.858

693	247	1	0.810	0.02254	0.767	0.855
696	246	1	0.806	0.02269	0.763	0.852
712	245	1	0.803	0.02284	0.759	0.849
736	244	1	0.800	0.02298	0.756	0.846
765	243	1	0.796	0.02312	0.752	0.843
802	242	2	0.790	0.02339	0.745	0.837
806	240	1	0.787	0.02353	0.742	0.834
811	239	1	0.783	0.02366	0.738	0.831
844	238	1	0.780	0.02379	0.735	0.828
862	237	1	0.777	0.02391	0.731	0.825
884	236	1	0.773	0.02404	0.728	0.822
887	235	2	0.767	0.02428	0.721	0.816
905	233	1	0.764	0.02440	0.717	0.813
911	232	1	0.760	0.02451	0.714	0.810
916	231	1	0.757	0.02463	0.710	0.807
961	230	1	0.754	0.02474	0.707	0.804
977	229	1	0.750	0.02485	0.703	0.801
993	228	1	0.747	0.02496	0.700	0.798
1022	227	1	0.744	0.02506	0.696	0.795
1138	226	1	0.741	0.02517	0.693	0.792
1145	225	1	0.737	0.02527	0.689	0.789
1151	224	1	0.734	0.02537	0.686	0.785
1193	223	1	0.731	0.02547	0.682	0.782
1201	222	1	0.727	0.02557	0.679	0.779
1212	221	1	0.724	0.02566	0.676	0.776
1246	220	1	0.721	0.02576	0.672	0.773
1273	219	1	0.718	0.02585	0.669	0.770
1276	218	2	0.711	0.02603	0.662	0.764
1279	216	1	0.708	0.02612	0.658	0.761
1302	214	1	0.704	0.02620	0.655	0.758
1306	213	1	0.701	0.02629	0.651	0.755
1365	212	1	0.698	0.02637	0.648	0.752
1387	211	1	0.695	0.02645	0.645	0.748
1388	210	1	0.691	0.02654	0.641	0.745
1424	208	1	0.688	0.02662	0.638	0.742
1439	207	1	0.685	0.02669	0.634	0.739
1446	206	1	0.681	0.02677	0.631	0.736
1495	204	1	0.678	0.02685	0.627	0.733

1511	203	1	0.675	0.02692	0.624	0.730
1521	202	1	0.671	0.02700	0.620	0.726
1550	201	1	0.668	0.02707	0.617	0.723
1607	200	1	0.665	0.02714	0.614	0.720
1620	199	1	0.661	0.02721	0.610	0.717
1637	198	1	0.658	0.02727	0.607	0.714
1668	197	1	0.655	0.02734	0.603	0.711
1671	196	1	0.651	0.02740	0.600	0.707
1752	195	1	0.648	0.02747	0.596	0.704
1767	194	1	0.645	0.02753	0.593	0.701
1783	193	1	0.641	0.02759	0.589	0.698
1798	192	1	0.638	0.02765	0.586	0.695
1812	190	1	0.635	0.02770	0.583	0.691
1831	185	1	0.631	0.02777	0.579	0.688
1856	183	1	0.628	0.02783	0.576	0.685
1995	172	1	0.624	0.02790	0.572	0.681
2021	167	1	0.620	0.02799	0.568	0.678
2052	161	1	0.617	0.02808	0.564	0.674
2127	146	1	0.612	0.02820	0.560	0.670
2174	136	1	0.608	0.02835	0.555	0.666
2197	127	1	0.603	0.02853	0.550	0.662
2318	102	1	0.597	0.02886	0.543	0.657
2482	72	1	0.589	0.02963	0.534	0.650
2542	53	1	0.578	0.03109	0.520	0.642
2725	35	1	0.562	0.03432	0.498	0.633