```
(base) Yashs-MacBook-Pro:test yash$ cd ..
(base) Yashs-MacBook-Pro:Desktop yash$ cd .
-bash: cd.:command not found
(base) Yashs-MacBook-Pro:Desktop yash$ cd ..
(base) Yashs-MacBook-Pro:Desktop yash$ cd ..
(base) Yashs-MacBook-Pro:Documents yash$ cd S271\ ML/Assignments/Assignment2
(base) Yashs-MacBook-Pro:Assignment2 yash$ clear
```

```
(base) Yashs-MacBook-Pro:Assignment2 yash$ 1s
BrownCorpus Q14 Outputs.pdf Q15 Q15.c Q15.h hmm
(base) Yashs-MacBook-Pro:Assignment2 yash$ gcc Q15.c -o Q15
(base) Yashs-MacBook-Pro:Assignment2 yash$ ./Q15 BrownCorpus 15 1000 1000000 200 22761 1000 GetT... T = 1000000 allocating 6048006048 bytes of memory... T = 1000000 allocating 2473632 bytes of memory... done
                                                                                                                                                                                                                                                                                                                            hmm.h
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Model 747 has score
Model 748 has score
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Model 761 has score
Model 761 has score
Model 764 has score
Model 764 has score
Model 765 has score
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 Model 766 has score
Model 766 has score
Model 767 has score
Model 768 has score
Model 769 has score
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Model 874 has score
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Model 881 has score
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Model 882 has score
Model 883 has score
Model 884 has score
Model 885 has score
Model 886 has score
Model 886 has score
Model 886 has score
Model 887 has score
Model 888 has score
Model 889 has score
Model 890 has score
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     Model 901 has score
Model 902 has score
Model 903 has score
Model 904 has score
Model 905 has score
Model 906 has score
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        Model 996 has score
        0.93846

        Model 998 has score
        0.90808

        Model 1999 has score
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        Model 910 has score
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        Model 911 has score
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        Model 912 has score
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        Model 915 has score
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        Model 916 has score
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        Model 929 has score
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        Model 924 has score
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        Model 929 has score
        0.93846

        Model 931 has score
        0.93846

        Model 932 has score
        0.93846

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        (base) Yashs-MacBook-Pro:Assignment2 yash$ ./Q15 BrownCorpus 15 1000 1000000 200 22761 10000
      GetT... T = 1000000
allocating 6048006048 bytes of memory... T = 1000000
allocating 2473632 bytes of memory... done
      Model 1 has score 0.03846
     Model 1 has score 0.03846
Model 2 has score 0.03846
Model 3 has score 0.03846
Model 4 has score 0.03846
Model 5 has score 0.00000
Model 6 has score 0.00000
Model 7 has score 0.00000
Model 8 has score 0.00000
Model 9 has score 0.03846
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| Model 10 has Score |
Model 12 has Score |
Model 12 has Score |
Model 13 has Score |
Model 13 has Score |
Model 16 has Score |
Model 16 has Score |
Model 16 has Score |
Model 17 has Score |
Model 17 has Score |
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        MODEL 1249 has score |
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        MODEL 15.19 has SCOTE | 0.89846
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        MODEL 15.21 has SCOTE | 0.89846
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        MODEL 1.050-h has border
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        MODEL 1.055-h has core
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        MODEL 1925 has SCOTE |
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        MODEL 1925 has SCOTE |
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        MODEL 1928 has SCOTE |
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        MODEL 1928 has SCOTE |
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        MODEL 1930 has SCOTE |
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        MODEL 1931 has SCOTE |
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        MODEL 1934 has SCOTE |
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        MODEL 1935 has SCOTE |
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        MODEL 1933 has SCOTE |
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        MODEL 1938 has SCOTE |
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        MODEL 1934 has SCOTE |
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        MODEL 1944 has SCOTE |
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        MODEL 1944 has SCOTE |
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        MODEL 1944 has SCOTE |
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        MODEL 1944 has SCOTE |
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        MODEL 1956 has SCOTE |
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Model 2035 has score
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        MODEL 2090 has score | 0.98946
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        MODEL 2001 has score | 0.98948
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        MODEL 2001 has score | 0.98948
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        MODEL 2005 has score | 0.98948
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        MODEL 2007 has score | 0.98948
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        MODEL 2071 has score | 0.98948
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        MODEL 2073 has score | 0.98948
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        MODEL 2075 has score | 0.98948
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        MODEL 2077 has score | 0.98948
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        MODEL 2081 has score | 0.98948
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        MODEL 2085 has score | 0.98948
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        MODEL 2087 has score | 0.98948
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        MOGEL 2134 has score |
        0.98946 has score |
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Model 2386 has score Model 2316 has score Model 2311 has score Model 2311 has score Model 2315 has score Model 2316 has score Model 2321 has score Model 2321 has score Model 2322 has score Model 2324 has score Model 2324 has score Model 2326 has score Model 2328 has score Model 2328 has score Model 2328 has score Model 2338 has score Model 2339 has score Model 233
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        MODBEL 2329 has SCOTE | 0.08080
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        MOGBEL 2331 has SCOTE | 0.08080
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        MOGBEL 2356 has SCOTE | 0.08080
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        MOGBEL 2357 has SCOTE | 0.08080
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Model 2440 has score
Model 2441 has score
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        MODEL 2490 has score |
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Model 2575 has score
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        MODEL 2-SYP NAS SOCCE | 0.98988
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        MODEL 2-SYP NAS SOCCE | 0.98988
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        MODEL 2-SYP NAS SOCCE | 0.98988
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        MODEL 2-SYP NAS SOCCE | 0.98988
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Model 2710 has score
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        MOGBE 12735 has SCOTE
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        MOGBE 12734 has SCOTE
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        MOGBE 12734 has SCOTE
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        MOGBE 12744 has SCOTE
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        MOGBE 12745 has SCOTE
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        MOGBE 12745 has SCOTE
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        MOGBE 12756 has SCOTE
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        MOGB 12756 has SCOTE
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        MOGB 12760 has SCOTE
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        MOGB 12776 has SCOTE
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        MOGB 12776 has SCOTE
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Model 2845 has score
Model 2846 has score
Model 2856 has score
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Model 2988 has score Model 2981 has score Model 2981 has score Model 2983 has score Model 2983 has score Model 2984 has score Model 2986 has score Model 2986 has score Model 2986 has score Model 2987 has score Model 2989 has score Model 2994 has score Model 2996 has score Model 3981 has score Model 3881 has score Model 3881 has score Model 3882 has score Model 3884 has score Model 3884 has score Model 3884 has score Model 3886 has score Model 388
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Model 3115 has score
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Model 3119 has score
Model 3129 has score
Model 3121 has score
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        MODEL 31.14 has score | 0.98946
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        MODEL 31.75 has score | 0.98946
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        MODEL 31.75 has score | 0.98946
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Model 3250 has score
Model 3251 has score
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Model 3253 has score
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Model 3258 has score
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Model 3252 has score
Model 3254 has score
Model 3264 has score
Model 3265 has score
Model 3266 has score
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        Model 3578 has score
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        Model 3579 has score
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        MODEL 3-71 has SOCITE (.098096
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        MODEL 3815 has SCOPE (1.98946)
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Model 4465 has score Model 4466 has score Model 4466 has score Model 4466 has score Model 4466 has score Model 4469 has score Model 4476 has score Model 4471 has score Model 4477 has score Model 4476 has score Model 4476 has score Model 4476 has score Model 4478 has score Model 4487 has score Model 4481 has score Model 4481 has score Model 4484 has score Model 4484 has score Model 4488 has score Model 4489 has score Model 4498 has score Model 4499 has score Model 4491 has score Model 4489 has score Model 4491 has score Model 4489 has score Model 4491 has score Model 449
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        MODEL A9991 has score | 0.989989
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        Model 7594 has score
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        MoGE B 1316 has score
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        MODEL 9 3934 has score |
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        Model 9514 has score
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        MODEL 9 (25) has score |
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        MODEL 9760 has SCOTE |
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