

# 22级DS综合作业 Debug 辅助工具

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## simtool\_debug

### 使用说明

- 默认输入文件与综合作业要求相同，放在 `CWD`（运行目录）下，即 `shell` 当前所在目录下（命令行前面显示的那个目录，可使用命令 `cd` 切换）；
- usage: `.\simtool_debug <N> <M> <output_path> [<debug_info_path> [<mode>]] [--reverse]`（“[ ]”表示括号中为可选参数）  
  
example: `.\simtool_debug 1000 16 out.txt debug.txt 5 --reverse`，将  $N = 1000$ ,  $M = 16$  的结果 输出到 `out.txt`，并将 `SAMPLE_HASH` 与 `WORD_INFO` 信息输出到 `debug.txt`，其中 Hash 为倒序输出；
- 在命令行中执行二进制文件，接受 3~6 个参数，前 2 个参数与综合作业要求相同，第 3 个参数为默认输出文件路径，第 4 个参数为 Debug 信息输出文件路径，第 5 个参数为 Debug 信息内容，默认为 `SAMPLE_HASH | SOME_HASH`，可选列表见附录，掩码方式（即若 `mode & type`，则代表 `type` 生效），最后一个参数若为 `--reverse`，则代表将 Hash 倒序输出；
- 仅支持 Windows；
- 因为一些特殊原因跑的很慢。（但是进度条很好玩）

### 附录

MODE	VAL	FORMAT	PS
SAMPLE_HASH	1	%-10s: %Ms	
SOME_HASH	2	%-10s: %Ms	HammingDistance <= 1 in example
WORD_INFO	4	%-20s: %4d	Feature word and frequency
MORE_HASH	8	%-10s: %Ms	HammingDistance <= 3 in example

## comparator

### 使用说明

- usage: `.\comparator <File1> <File2>`
- 输出两个文件的差异，若两个文件在忽略多余空格与末尾空行的条件下完全相同，则输出 `Same`。

### 常数表

```
const int some[] = {1, 25, 38, 59, 83, 101, 111, 148, 160, 200, 201, 226, 301, 305,
327, 341, 391, 401, 467, 472, 486, 501, 536, 538, 577, 601, 614, 682, 700, 701, 705,
774, 801, 890, 901, 917, 944, 945, 950, 961, 972, 973, 976};
```

```
const int more[] = {1, 4, 7, 10, 13, 15, 16, 18, 24, 25, 28, 29, 30, 33, 37, 38, 39,
41, 42, 43, 44, 45, 46, 47, 48, 49, 51, 52, 54, 58, 59, 62, 64, 68, 71, 77, 78, 79,
81, 82, 83, 84, 85, 87, 89, 90, 91, 93, 94, 96, 97, 100, 101, 102, 103, 105, 107,
111, 114, 115, 116, 118, 124, 126, 128, 129, 132, 136, 139, 142, 146, 147, 148, 149,
151, 152, 155, 156, 158, 159, 160, 161, 162, 165, 167, 169, 170, 173, 174, 175, 176,
177, 182, 184, 186, 187, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 203, 206,
207, 211, 212, 213, 215, 216, 217, 218, 220, 221, 222, 225, 226, 227, 228, 229, 230,
231, 232, 233, 235, 238, 240, 241, 242, 246, 252, 253, 254, 257, 261, 263, 264, 266,
267, 271, 275, 277, 281, 282, 283, 286, 288, 292, 296, 298, 300, 301, 302, 303, 304,
305, 308, 310, 311, 313, 314, 315, 316, 318, 319, 320, 322, 326, 327, 328, 331, 333,
334, 335, 336, 337, 341, 344, 345, 352, 353, 356, 358, 359, 364, 366, 367, 368, 370,
371, 372, 377, 380, 381, 382, 388, 389, 390, 391, 392, 395, 396, 400, 401, 402, 404,
407, 409, 416, 417, 420, 421, 422, 423, 424, 425, 429, 436, 437, 438, 439, 440, 442,
443, 446, 448, 449, 451, 453, 458, 460, 461, 465, 467, 468, 469, 471, 472, 473, 474,
475, 480, 482, 486, 488, 489, 490, 491, 494, 496, 497, 498, 499, 501, 502, 504, 506,
508, 509, 510, 511, 512, 513, 515, 517, 520, 522, 523, 526, 529, 531, 532, 534, 536,
537, 538, 539, 540, 542, 543, 545, 546, 547, 548, 549, 550, 552, 553, 554, 557, 559,
562, 563, 565, 570, 571, 572, 574, 576, 577, 578, 582, 583, 585, 587, 589, 590, 591,
592, 594, 595, 596, 597, 601, 607, 610, 611, 612, 614, 616, 618, 621, 630, 632, 641,
643, 650, 651, 652, 654, 655, 657, 665, 666, 667, 668, 669, 670, 672, 674, 675, 676,
677, 678, 679, 681, 682, 683, 684, 685, 686, 687, 688, 689, 694, 695, 696, 700, 701,
702, 703, 704, 705, 706, 712, 713, 715, 720, 727, 728, 729, 730, 731, 735, 743, 752,
754, 757, 758, 759, 763, 764, 765, 766, 767, 768, 769, 771, 774, 776, 778, 779, 781,
782, 786, 790, 792, 795, 796, 797, 799, 801, 804, 806, 809, 813, 814, 817, 821, 823,
824, 828, 829, 830, 835, 838, 842, 844, 845, 846, 849, 850, 851, 855, 856, 857, 859,
861, 863, 865, 868, 871, 872, 873, 874, 876, 878, 880, 881, 882, 883, 884, 885, 886,
888, 889, 890, 892, 893, 894, 896, 899, 901, 902, 905, 906, 907, 914, 917, 918, 919,
922, 923, 924, 925, 926, 929, 931, 934, 935, 940, 942, 944, 945, 950, 951, 955, 956,
958, 959, 961, 962, 963, 964, 965, 967, 971, 972, 973, 974, 975, 976, 977, 978, 979,
982, 983, 984, 989, 990, 991, 992};
```