```
starting preprocessing
0
300
600
900
1200
1500
1800
2100
2400
2700
3000
3300
3600
3900
4200
4500
4800
preprocessing done 4999
0  Score: 0.0
1  Score: 1.0
2  Score: 1.0
3  Score: -1.0
4  Score: -3.0
5  Score: 0.0
6  Score: 0.0
7  Score: -1.0
8  Score: -1.0
9  Score: 0.0
10  Score: 3.0
11  Score: -1.0
12  Score: 0.0
13  Score: 1.0
14  Score: -1.0
15  Score: -1.0
16  Score: 1.0
17  Score: 1.0
18  Score: 0.0
19  Score: 0.0
20  Score: 0.0
21  Score: 3.0
22  Score: 0.0
23  Score: -1.0
24  Score: 2.0
25  Score: 0.0
26  Score: 0.0
27  Score: -1.0
28  Score: -1.0
29  Score: 0.0
30  Score: 0.0
31  Score: 0.0
32  Score: 1.0
33  Score: -1.0
34  Score: -1.0
35  Score: 0.0
36  Score: 1.0
37  Score: -1.0
38  Score: 0.0
39  Score: -2.0
40  Score: 0.0
41  Score: -1.0
42  Score: -1.0
43  Score: 1.0
44  Score: -1.0
```

```
45  Score: -1.0
46  Score: -3.0
47  Score: 0.0
48  Score: 1.0
49  Score: 0.0
50  Score: 1.0
51  Score: 0.0
52  Score: 1.0
53  Score: 1.0
54  Score: 0.0
55  Score: 1.0
56  Score: 1.0
57  Score: 0.0
58  Score: -1.0
59  Score: -1.0
60  Score: 0.0
61  Score: 0.0
62  Score: -2.0
63  Score: 1.0
64  Score: 1.0
65  Score: 0.0
66  Score: 1.0
67  Score: 0.0
68  Score: 1.0
69  Score: -2.0
70  Score: 0.0
71  Score: 0.0
72  Score: -1.0
73  Score: 1.0
74  Score: 0.0
75  Score: 1.0
76  Score: 1.0
77  Score: 1.0
78  Score: 1.0
79  Score: 1.0
80  Score: 1.0
81  Score: -2.0
82  Score: 1.0
83  Score: 1.0
84  Score: 1.0
85  Score: 0.0
86  Score: -1.0
87  Score: 0.0
88  Score: 1.0
89  Score: 3.0
90  Score: 1.0
91  Score: 1.0
92  Score: 0.0
93  Score: 0.0
94  Score: -1.0
95  Score: 1.0
96  Score: -1.0
97  Score: 1.0
98  Score: 3.0
99  Score: 1.0
100  Score: 1.0
101  Score: 2.0
        101   sum of last 100 : 13.0
102  Score: 3.0
        102   sum of last 100 : 14.0
103  Score: 2.0
        103   sum of last 100 : 16.0
104  Score: -1.0
        104   sum of last 100 : 19.0
```

```
105  Score: -1.0
       105   sum of last 100 : 21.0
106  Score: 1.0
       106   sum of last 100 : 20.0
107  Score: -1.0
       107   sum of last 100 : 21.0
108  Score: 2.0
       108   sum of last 100 : 21.0
109  Score: 1.0
       109   sum of last 100 : 24.0
110  Score: 1.0
       110   sum of last 100 : 25.0
111  Score: 2.0
       111   sum of last 100 : 23.0
112  Score: 1.0
       112   sum of last 100 : 26.0
113  Score: 4.0
       113   sum of last 100 : 27.0
114  Score: 0.0
       114   sum of last 100 : 30.0
115  Score: 4.0
       115   sum of last 100 : 31.0
116  Score: 0.0
       116   sum of last 100 : 36.0
117  Score: -1.0
       117   sum of last 100 : 35.0
118  Score: -1.0
       118   sum of last 100 : 33.0
119  Score: 1.0
       119   sum of last 100 : 32.0
120  Score: 0.0
       120   sum of last 100 : 33.0
121  Score: 1.0
       121   sum of last 100 : 33.0
122  Score: 1.0
       122   sum of last 100 : 31.0
123  Score: 1.0
       123   sum of last 100 : 32.0
124  Score: 3.0
       124   sum of last 100 : 34.0
125  Score: -1.0
       125   sum of last 100 : 35.0
126  Score: 1.0
       126   sum of last 100 : 34.0
127  Score: 0.0
       127   sum of last 100 : 35.0
128  Score: 0.0
       128   sum of last 100 : 36.0
129  Score: 2.0
       129   sum of last 100 : 37.0
130  Score: 3.0
       130   sum of last 100 : 39.0
131  Score: 1.0
       131   sum of last 100 : 42.0
132  Score: 2.0
       132   sum of last 100 : 43.0
133  Score: 5.0
       133   sum of last 100 : 44.0
134  Score: 1.0
       134   sum of last 100 : 50.0
135  Score: 1.0
       135   sum of last 100 : 52.0
136  Score: -1.0
       136   sum of last 100 : 53.0
```

```
137  Score: -1.0
         137    sum of last 100 : 51.0
138  Score: 2.0
         138    sum of last 100 : 51.0
139  Score: -1.0
         139    sum of last 100 : 53.0
140  Score: 5.0
         140    sum of last 100 : 54.0
141  Score: 0.0
         141    sum of last 100 : 59.0
142  Score: 3.0
         142    sum of last 100 : 60.0
143  Score: 2.0
         143    sum of last 100 : 64.0
144  Score: 2.0
         144    sum of last 100 : 65.0
145  Score: 0.0
         145    sum of last 100 : 68.0
146  Score: 1.0
         146    sum of last 100 : 69.0
147  Score: -2.0
         147    sum of last 100 : 73.0
148  Score: 1.0
         148    sum of last 100 : 71.0
149  Score: 3.0
         149    sum of last 100 : 71.0
150  Score: 0.0
         150    sum of last 100 : 74.0
151  Score: 1.0
         151    sum of last 100 : 73.0
152  Score: 0.0
         152    sum of last 100 : 74.0
153  Score: 0.0
         153    sum of last 100 : 73.0
154  Score: 3.0
         154    sum of last 100 : 72.0
155  Score: 2.0
         155    sum of last 100 : 75.0
156  Score: 3.0
         156    sum of last 100 : 76.0
157  Score: 2.0
         157    sum of last 100 : 78.0
158  Score: 0.0
         158    sum of last 100 : 80.0
159  Score: 3.0
         159    sum of last 100 : 81.0
160  Score: -2.0
         160    sum of last 100 : 85.0
161  Score: 2.0
         161    sum of last 100 : 83.0
162  Score: 0.0
         162    sum of last 100 : 85.0
163  Score: 2.0
         163    sum of last 100 : 87.0
164  Score: 1.0
         164    sum of last 100 : 88.0
165  Score: 4.0
         165    sum of last 100 : 88.0
166  Score: 1.0
         166    sum of last 100 : 92.0
167  Score: 0.0
         167    sum of last 100 : 92.0
168  Score: -1.0
         168    sum of last 100 : 92.0
```

```
169  Score: 1.0
      169   sum of last 100 : 90.0
170  Score: -1.0
      170   sum of last 100 : 93.0
171  Score: 5.0
      171   sum of last 100 : 92.0
172  Score: 0.0
      172   sum of last 100 : 97.0
173  Score: 0.0
      173   sum of last 100 : 98.0
174  Score: 2.0
      174   sum of last 100 : 97.0
175  Score: 6.0
      175   sum of last 100 : 99.0
176  Score: 2.0
      176   sum of last 100 : 104.0
177  Score: 5.0
      177   sum of last 100 : 105.0
178  Score: 1.0
      178   sum of last 100 : 109.0
179  Score: 6.0
      179   sum of last 100 : 109.0
180  Score: 4.0
      180   sum of last 100 : 114.0
181  Score: -1.0
      181   sum of last 100 : 117.0
182  Score: 3.0
      182   sum of last 100 : 118.0
183  Score: 2.0
      183   sum of last 100 : 120.0
184  Score: 1.0
      184   sum of last 100 : 121.0
185  Score: 0.0
      185   sum of last 100 : 121.0
186  Score: 8.0
      186   sum of last 100 : 121.0
187  Score: -1.0
      187   sum of last 100 : 130.0
188  Score: 1.0
      188   sum of last 100 : 129.0
189  Score: 2.0
      189   sum of last 100 : 129.0
190  Score: 4.0
      190   sum of last 100 : 128.0
191  Score: 3.0
      191   sum of last 100 : 131.0
192  Score: 0.0
      192   sum of last 100 : 133.0
193  Score: 2.0
      193   sum of last 100 : 133.0
194  Score: 7.0
      194   sum of last 100 : 135.0
195  Score: -1.0
      195   sum of last 100 : 143.0
196  Score: 0.0
      196   sum of last 100 : 141.0
197  Score: -2.0
      197   sum of last 100 : 142.0
198  Score: 2.0
      198   sum of last 100 : 139.0
199  Score: 2.0
      199   sum of last 100 : 138.0
200  Score: 1.0
      200   sum of last 100 : 139.0
```

```
201  Score: 2.0
     201   sum of last 100 : 139.0
202  Score: 0.0
     202   sum of last 100 : 139.0
203  Score: -1.0
     203   sum of last 100 : 136.0
204  Score: -1.0
     204   sum of last 100 : 133.0
205  Score: 4.0
     205   sum of last 100 : 133.0
206  Score: 4.0
     206   sum of last 100 : 138.0
207  Score: 8.0
     207   sum of last 100 : 141.0
208  Score: 1.0
     208   sum of last 100 : 150.0
209  Score: 5.0
     209   sum of last 100 : 149.0
210  Score: 0.0
     210   sum of last 100 : 153.0
211  Score: 4.0
     211   sum of last 100 : 152.0
212  Score: 3.0
     212   sum of last 100 : 154.0
213  Score: 3.0
     213   sum of last 100 : 156.0
214  Score: 3.0
     214   sum of last 100 : 155.0
215  Score: 6.0
     215   sum of last 100 : 158.0
216  Score: 1.0
     216   sum of last 100 : 160.0
217  Score: 3.0
     217   sum of last 100 : 161.0
218  Score: 6.0
     218   sum of last 100 : 165.0


219  Score: 0.0
     219   sum of last 100 : 172.0
220  Score: 4.0
     220   sum of last 100 : 171.0
221  Score: 3.0
     221   sum of last 100 : 175.0
222  Score: 1.0
     222   sum of last 100 : 177.0
223  Score: 0.0
     223   sum of last 100 : 177.0
224  Score: 1.0
     224   sum of last 100 : 176.0
225  Score: 0.0
     225   sum of last 100 : 174.0
226  Score: 4.0
     226   sum of last 100 : 175.0
227  Score: 4.0
     227   sum of last 100 : 178.0
228  Score: 2.0
     228   sum of last 100 : 182.0
229  Score: 3.0
     229   sum of last 100 : 184.0
230  Score: 1.0
     230   sum of last 100 : 185.0
231  Score: 2.0
     231   sum of last 100 : 183.0
```

```
232  Score: 6.0
       232   sum of last 100 : 184.0
233  Score: 10.0
       233   sum of last 100 : 188.0
234  Score: 4.0
       234   sum of last 100 : 193.0
235  Score: 2.0
       235   sum of last 100 : 196.0
236  Score: 6.0
       236   sum of last 100 : 197.0
237  Score: 2.0
       237   sum of last 100 : 204.0
238  Score: 2.0
       238   sum of last 100 : 207.0
239  Score: 5.0
       239   sum of last 100 : 207.0
240  Score: 1.0
       240   sum of last 100 : 213.0
241  Score: 3.0
       241   sum of last 100 : 209.0
242  Score: 2.0
       242   sum of last 100 : 212.0
243  Score: 2.0
       243   sum of last 100 : 211.0
244  Score: 2.0
       244   sum of last 100 : 211.0
245  Score: 5.0
       245   sum of last 100 : 211.0
246  Score: 0.0
       246   sum of last 100 : 216.0
247  Score: 1.0
       247   sum of last 100 : 215.0
248  Score: 0.0
       248   sum of last 100 : 218.0
249  Score: 12.0
       249   sum of last 100 : 217.0
250  Score: 7.0
       250   sum of last 100 : 226.0
251  Score: 2.0
       251   sum of last 100 : 233.0
252  Score: 6.0
       252   sum of last 100 : 234.0
253  Score: 10.0
       253   sum of last 100 : 240.0
254  Score: 0.0
       254   sum of last 100 : 250.0
255  Score: 11.0
       255   sum of last 100 : 247.0
256  Score: 3.0
       256   sum of last 100 : 256.0
257  Score: 5.0
       257   sum of last 100 : 256.0
258  Score: 3.0
       258   sum of last 100 : 259.0
259  Score: 8.0
       259   sum of last 100 : 262.0
260  Score: 5.0
       260   sum of last 100 : 267.0
261  Score: 7.0
       261   sum of last 100 : 274.0
262  Score: 4.0
       262   sum of last 100 : 279.0
263  Score: 7.0
       263   sum of last 100 : 283.0
```

```
264  Score: 9.0
      264   sum of last 100 : 288.0
265  Score: 5.0
      265   sum of last 100 : 296.0
266  Score: 0.0
      266   sum of last 100 : 297.0
267  Score: 5.0
      267   sum of last 100 : 296.0
268  Score: 6.0
      268   sum of last 100 : 301.0
269  Score: 1.0
      269   sum of last 100 : 308.0
270  Score: 0.0
      270   sum of last 100 : 308.0
271  Score: 0.0
      271   sum of last 100 : 309.0
272  Score: 5.0
      272   sum of last 100 : 304.0
273  Score: 0.0
      273   sum of last 100 : 309.0
274  Score: 7.0
      274   sum of last 100 : 309.0
275  Score: 5.0
      275   sum of last 100 : 314.0
276  Score: 6.0
      276   sum of last 100 : 313.0
277  Score: 6.0
      277   sum of last 100 : 317.0
278  Score: 2.0
      278   sum of last 100 : 318.0
279  Score: 4.0
      279   sum of last 100 : 319.0
280  Score: 0.0
      280   sum of last 100 : 317.0
281  Score: 4.0
      281   sum of last 100 : 313.0
282  Score: 2.0
      282   sum of last 100 : 318.0
283  Score: 2.0
      283   sum of last 100 : 317.0
284  Score: 5.0
      284   sum of last 100 : 317.0
285  Score: 6.0
      285   sum of last 100 : 321.0
286  Score: 7.0
      286   sum of last 100 : 327.0
287  Score: 6.0
      287   sum of last 100 : 326.0
288  Score: 8.0
      288   sum of last 100 : 333.0
289  Score: 6.0
      289   sum of last 100 : 340.0
290  Score: 3.0
      290   sum of last 100 : 344.0
291  Score: 7.0
      291   sum of last 100 : 343.0
292  Score: 5.0
      292   sum of last 100 : 347.0
293  Score: 3.0
      293   sum of last 100 : 352.0
294  Score: 4.0
      294   sum of last 100 : 353.0
295  Score: 5.0
      295   sum of last 100 : 350.0
```

```
296  Score: 7.0
        296    sum of last 100 : 356.0
297  Score: 1.0
        297    sum of last 100 : 363.0
298  Score: 6.0
        298    sum of last 100 : 366.0
299  Score: 8.0
        299    sum of last 100 : 370.0
300  Score: 5.0
        300    sum of last 100 : 376.0
301  Score: 9.0
        301    sum of last 100 : 380.0
302  Score: 4.0
        302    sum of last 100 : 387.0
303  Score: 9.0
        303    sum of last 100 : 391.0
304  Score: 3.0
        304    sum of last 100 : 401.0
305  Score: 9.0
        305    sum of last 100 : 405.0
306  Score: 9.0
        306    sum of last 100 : 410.0
307  Score: 11.0
        307    sum of last 100 : 415.0
308  Score: 3.0
        308    sum of last 100 : 418.0
309  Score: 8.0
        309    sum of last 100 : 420.0
310  Score: 2.0
        310    sum of last 100 : 423.0
311  Score: 9.0
        311    sum of last 100 : 425.0
312  Score: 2.0
        312    sum of last 100 : 430.0
313  Score: 9.0
        313    sum of last 100 : 429.0
314  Score: 0.0
        314    sum of last 100 : 435.0
315  Score: 5.0
        315    sum of last 100 : 432.0
316  Score: 11.0
        316    sum of last 100 : 431.0
317  Score: 13.0
        317    sum of last 100 : 441.0
318  Score: 7.0
        318    sum of last 100 : 451.0
319  Score: 0.0
        319    sum of last 100 : 452.0
320  Score: 3.0
        320    sum of last 100 : 452.0
321  Score: 1.0
        321    sum of last 100 : 451.0
322  Score: 1.0
        322    sum of last 100 : 449.0
323  Score: 0.0
        323    sum of last 100 : 449.0
324  Score: 7.0
        324    sum of last 100 : 449.0
325  Score: 7.0
        325    sum of last 100 : 455.0
326  Score: 5.0
        326    sum of last 100 : 462.0
327  Score: 4.0
        327    sum of last 100 : 463.0
```

```
328  Score: 8.0
        328   sum of last 100 : 463.0
329  Score: 4.0
        329   sum of last 100 : 469.0
330  Score: 11.0
        330   sum of last 100 : 470.0
331  Score: 8.0
        331   sum of last 100 : 480.0
332  Score: 13.0
        332   sum of last 100 : 486.0
333  Score: 12.0
        333   sum of last 100 : 493.0
334  Score: 14.0
        334   sum of last 100 : 495.0
335  Score: 1.0
        335   sum of last 100 : 505.0
336  Score: 3.0
        336   sum of last 100 : 504.0
337  Score: 10.0
        337   sum of last 100 : 501.0
338  Score: -1.0
        338   sum of last 100 : 509.0
339  Score: 5.0
        339   sum of last 100 : 506.0
340  Score: 1.0
        340   sum of last 100 : 506.0
341  Score: 2.0
        341   sum of last 100 : 506.0
342  Score: 3.0
        342   sum of last 100 : 505.0
343  Score: 5.0
        343   sum of last 100 : 506.0
344  Score: 3.0
        344   sum of last 100 : 509.0
345  Score: 4.0
        345   sum of last 100 : 510.0
346  Score: 2.0
        346   sum of last 100 : 509.0
347  Score: 4.0
        347   sum of last 100 : 511.0
348  Score: 7.0
        348   sum of last 100 : 514.0
349  Score: 6.0
        349   sum of last 100 : 521.0
350  Score: 2.0
        350   sum of last 100 : 515.0
351  Score: 8.0
        351   sum of last 100 : 510.0
352  Score: 10.0
        352   sum of last 100 : 516.0
353  Score: 11.0
        353   sum of last 100 : 520.0
354  Score: 7.0
        354   sum of last 100 : 521.0
355  Score: 11.0
        355   sum of last 100 : 528.0
356  Score: 12.0
        356   sum of last 100 : 528.0
357  Score: 5.0
        357   sum of last 100 : 537.0
358  Score: 12.0
        358   sum of last 100 : 537.0
359  Score: 3.0
        359   sum of last 100 : 546.0
```

```
360  Score: 9.0
        360   sum of last 100 : 541.0
361  Score: 10.0
        361   sum of last 100 : 545.0
362  Score: 11.0
        362   sum of last 100 : 548.0
363  Score: 0.0
        363   sum of last 100 : 555.0
364  Score: 4.0
        364   sum of last 100 : 548.0


365  Score: 8.0
        365   sum of last 100 : 543.0
366  Score: 3.0
        366   sum of last 100 : 546.0
367  Score: 16.0
        367   sum of last 100 : 549.0
368  Score: 12.0
        368   sum of last 100 : 560.0
369  Score: 3.0
        369   sum of last 100 : 566.0
370  Score: 4.0
        370   sum of last 100 : 568.0
371  Score: 10.0
        371   sum of last 100 : 572.0
372  Score: 7.0
        372   sum of last 100 : 582.0
373  Score: 8.0
        373   sum of last 100 : 584.0
374  Score: 1.0
        374   sum of last 100 : 592.0
375  Score: 5.0
        375   sum of last 100 : 586.0
376  Score: 8.0
        376   sum of last 100 : 586.0
377  Score: 11.0
        377   sum of last 100 : 588.0
378  Score: 10.0
        378   sum of last 100 : 593.0
379  Score: 9.0
        379   sum of last 100 : 601.0
380  Score: 3.0
        380   sum of last 100 : 606.0
381  Score: 13.0
        381   sum of last 100 : 609.0
382  Score: 1.0
        382   sum of last 100 : 618.0
383  Score: 11.0
        383   sum of last 100 : 617.0
384  Score: 11.0
        384   sum of last 100 : 626.0
385  Score: 20.0
        385   sum of last 100 : 632.0
386  Score: 17.0
        386   sum of last 100 : 646.0
387  Score: 6.0
        387   sum of last 100 : 656.0
388  Score: 10.0
        388   sum of last 100 : 656.0
389  Score: 10.0
        389   sum of last 100 : 658.0
390  Score: 4.0
        390   sum of last 100 : 662.0
```

```
391  Score: 13.0
     391   sum of last 100 : 663.0
392  Score: 9.0
     392   sum of last 100 : 669.0
393  Score: 10.0
     393   sum of last 100 : 673.0
394  Score: 3.0
     394   sum of last 100 : 680.0
395  Score: 5.0
     395   sum of last 100 : 679.0
396  Score: 6.0
     396   sum of last 100 : 679.0
397  Score: 7.0
     397   sum of last 100 : 678.0
398  Score: 6.0
     398   sum of last 100 : 684.0
399  Score: 6.0
     399   sum of last 100 : 684.0
400  Score: 4.0
     400   sum of last 100 : 682.0
401  Score: 12.0
     401   sum of last 100 : 681.0
402  Score: 19.0
     402   sum of last 100 : 684.0
403  Score: 6.0
     403   sum of last 100 : 699.0
404  Score: 8.0
     404   sum of last 100 : 696.0
405  Score: 11.0
     405   sum of last 100 : 701.0
406  Score: 14.0
     406   sum of last 100 : 703.0
407  Score: 10.0
     407   sum of last 100 : 708.0
408  Score: 9.0
     408   sum of last 100 : 707.0
409  Score: 1.0
     409   sum of last 100 : 713.0
410  Score: 15.0
     410   sum of last 100 : 706.0
411  Score: 14.0
     411   sum of last 100 : 719.0
412  Score: 4.0
     412   sum of last 100 : 724.0
413  Score: 4.0
     413   sum of last 100 : 726.0
414  Score: 10.0
     414   sum of last 100 : 721.0
415  Score: 2.0
     415   sum of last 100 : 731.0
416  Score: 6.0
     416   sum of last 100 : 728.0
417  Score: 7.0
     417   sum of last 100 : 723.0
418  Score: 0.0
     418   sum of last 100 : 717.0
419  Score: 2.0
     419   sum of last 100 : 710.0
420  Score: 16.0
     420   sum of last 100 : 712.0
421  Score: 8.0
     421   sum of last 100 : 725.0
422  Score: 9.0
     422   sum of last 100 : 732.0
```

```
423  Score: 9.0
      423   sum of last 100 : 740.0
424  Score: 12.0
      424   sum of last 100 : 749.0
425  Score: 16.0
      425   sum of last 100 : 754.0
426  Score: 8.0
      426   sum of last 100 : 763.0
427  Score: 3.0
      427   sum of last 100 : 766.0
428  Score: 14.0
      428   sum of last 100 : 765.0
429  Score: 8.0
      429   sum of last 100 : 771.0
430  Score: 4.0
      430   sum of last 100 : 775.0
431  Score: 9.0
      431   sum of last 100 : 768.0
432  Score: 11.0
      432   sum of last 100 : 769.0
433  Score: 3.0
      433   sum of last 100 : 767.0
434  Score: 13.0
      434   sum of last 100 : 758.0
435  Score: 10.0
      435   sum of last 100 : 757.0
436  Score: 3.0
      436   sum of last 100 : 766.0
437  Score: 4.0
      437   sum of last 100 : 766.0
438  Score: 11.0
      438   sum of last 100 : 760.0
439  Score: 23.0
      439   sum of last 100 : 772.0
440  Score: 12.0
      440   sum of last 100 : 790.0
441  Score: 15.0
      441   sum of last 100 : 801.0
442  Score: 7.0
      442   sum of last 100 : 814.0
443  Score: 2.0
      443   sum of last 100 : 818.0
444  Score: 11.0
      444   sum of last 100 : 815.0
445  Score: 5.0
      445   sum of last 100 : 823.0
446  Score: 4.0
      446   sum of last 100 : 824.0
447  Score: 8.0
      447   sum of last 100 : 826.0
448  Score: 7.0
      448   sum of last 100 : 830.0
449  Score: 12.0
      449   sum of last 100 : 830.0
450  Score: 11.0
      450   sum of last 100 : 836.0
451  Score: 5.0
      451   sum of last 100 : 845.0
452  Score: 6.0
      452   sum of last 100 : 842.0
453  Score: 2.0
      453   sum of last 100 : 838.0
454  Score: 15.0
      454   sum of last 100 : 829.0
```

```
455  Score: 10.0
        455   sum of last 100 : 837.0
456  Score: 11.0
        456   sum of last 100 : 836.0
457  Score: 5.0
        457   sum of last 100 : 835.0
458  Score: 14.0
        458   sum of last 100 : 835.0
459  Score: 8.0
        459   sum of last 100 : 837.0
460  Score: 10.0
        460   sum of last 100 : 842.0
461  Score: 12.0
        461   sum of last 100 : 843.0
462  Score: 13.0
        462   sum of last 100 : 845.0
463  Score: 12.0
        463   sum of last 100 : 847.0
464  Score: 6.0
        464   sum of last 100 : 859.0
465  Score: 9.0
        465   sum of last 100 : 861.0
466  Score: 10.0
        466   sum of last 100 : 862.0
467  Score: 12.0
        467   sum of last 100 : 869.0
468  Score: 14.0
        468   sum of last 100 : 865.0
469  Score: 10.0
        469   sum of last 100 : 867.0
470  Score: 10.0
        470   sum of last 100 : 874.0
471  Score: 16.0
        471   sum of last 100 : 880.0
472  Score: 15.0
        472   sum of last 100 : 886.0
473  Score: 7.0
        473   sum of last 100 : 894.0
474  Score: 2.0
        474   sum of last 100 : 893.0
475  Score: 9.0
        475   sum of last 100 : 894.0
476  Score: 5.0
        476   sum of last 100 : 898.0
477  Score: 9.0
        477   sum of last 100 : 895.0
478  Score: 9.0
        478   sum of last 100 : 893.0
479  Score: 10.0
        479   sum of last 100 : 892.0
480  Score: 17.0
        480   sum of last 100 : 893.0
481  Score: 14.0
        481   sum of last 100 : 907.0
482  Score: 6.0
        482   sum of last 100 : 908.0
483  Score: 13.0
        483   sum of last 100 : 913.0
484  Score: 14.0
        484   sum of last 100 : 915.0
485  Score: 12.0
        485   sum of last 100 : 918.0
486  Score: 10.0
        486   sum of last 100 : 910.0
```

```
487  Score: 6.0
      487   sum of last 100 : 903.0
488  Score: 16.0
      488   sum of last 100 : 903.0
489  Score: 19.0
      489   sum of last 100 : 909.0
490  Score: 4.0
      490   sum of last 100 : 918.0
491  Score: 10.0
      491   sum of last 100 : 918.0
492  Score: 14.0
      492   sum of last 100 : 915.0
493  Score: 4.0
      493   sum of last 100 : 920.0
494  Score: 12.0
      494   sum of last 100 : 914.0
495  Score: 13.0
      495   sum of last 100 : 923.0
496  Score: 12.0
      496   sum of last 100 : 931.0
497  Score: 9.0
      497   sum of last 100 : 937.0
498  Score: 10.0
      498   sum of last 100 : 939.0
499  Score: 15.0
      499   sum of last 100 : 943.0
500  Score: 6.0
      500   sum of last 100 : 952.0
501  Score: 15.0
      501   sum of last 100 : 954.0
502  Score: 8.0
      502   sum of last 100 : 957.0
503  Score: 6.0
      503   sum of last 100 : 946.0
504  Score: 13.0
      504   sum of last 100 : 946.0
505  Score: 15.0
      505   sum of last 100 : 951.0
506  Score: 10.0
      506   sum of last 100 : 955.0
507  Score: 10.0
      507   sum of last 100 : 951.0
508  Score: 8.0
      508   sum of last 100 : 951.0
509  Score: 14.0
      509   sum of last 100 : 950.0


510  Score: 5.0
      510   sum of last 100 : 963.0
511  Score: 11.0
      511   sum of last 100 : 953.0
512  Score: 13.0
      512   sum of last 100 : 950.0
513  Score: 10.0
      513   sum of last 100 : 959.0
514  Score: 11.0
      514   sum of last 100 : 965.0
515  Score: 5.0
      515   sum of last 100 : 966.0
516  Score: 6.0
      516   sum of last 100 : 969.0
517  Score: 4.0
      517   sum of last 100 : 969.0
```

```
518  Score: 14.0
        518   sum of last 100 : 966.0
519  Score: 8.0
        519   sum of last 100 : 980.0
520  Score: 10.0
        520   sum of last 100 : 986.0
521  Score: 11.0
        521   sum of last 100 : 980.0
522  Score: 10.0
        522   sum of last 100 : 983.0
523  Score: 14.0
        523   sum of last 100 : 984.0
524  Score: 6.0
        524   sum of last 100 : 989.0
525  Score: 10.0
        525   sum of last 100 : 983.0
526  Score: 20.0
        526   sum of last 100 : 977.0
527  Score: 14.0
        527   sum of last 100 : 989.0
528  Score: 9.0
        528   sum of last 100 : 1000.0
529  Score: 14.0
        529   sum of last 100 : 995.0
530  Score: 7.0
        530   sum of last 100 : 1001.0
531  Score: 13.0
        531   sum of last 100 : 1004.0
532  Score: 16.0
        532   sum of last 100 : 1008.0
533  Score: 14.0
        533   sum of last 100 : 1013.0
534  Score: 15.0
        534   sum of last 100 : 1024.0
535  Score: 10.0
        535   sum of last 100 : 1026.0
536  Score: 17.0
        536   sum of last 100 : 1026.0
537  Score: 3.0
        537   sum of last 100 : 1040.0
538  Score: 6.0
        538   sum of last 100 : 1039.0
539  Score: 13.0
        539   sum of last 100 : 1034.0
540  Score: 13.0
        540   sum of last 100 : 1024.0
541  Score: 5.0
        541   sum of last 100 : 1025.0
542  Score: 11.0
        542   sum of last 100 : 1015.0
543  Score: 8.0
        543   sum of last 100 : 1019.0
544  Score: 14.0
        544   sum of last 100 : 1025.0
545  Score: 5.0
        545   sum of last 100 : 1028.0
546  Score: 15.0
        546   sum of last 100 : 1028.0
547  Score: 12.0
        547   sum of last 100 : 1039.0
548  Score: 9.0
        548   sum of last 100 : 1043.0
549  Score: 11.0
        549   sum of last 100 : 1045.0
```

```
550  Score: 6.0
      550   sum of last 100 : 1044.0
551  Score: 9.0
      551   sum of last 100 : 1039.0
552  Score: 14.0
      552   sum of last 100 : 1043.0
553  Score: 12.0
      553   sum of last 100 : 1051.0
554  Score: 14.0
      554   sum of last 100 : 1061.0
555  Score: 8.0
      555   sum of last 100 : 1060.0
556  Score: 15.0
      556   sum of last 100 : 1058.0
557  Score: 7.0
      557   sum of last 100 : 1062.0
558  Score: 2.0
      558   sum of last 100 : 1064.0
559  Score: 5.0
      559   sum of last 100 : 1052.0
560  Score: 2.0
      560   sum of last 100 : 1049.0
561  Score: 9.0
      561   sum of last 100 : 1041.0
562  Score: 6.0
      562   sum of last 100 : 1038.0
563  Score: 9.0
      563   sum of last 100 : 1031.0
564  Score: 6.0
      564   sum of last 100 : 1028.0
565  Score: 16.0
      565   sum of last 100 : 1028.0
566  Score: 7.0
      566   sum of last 100 : 1035.0
567  Score: 2.0
      567   sum of last 100 : 1032.0
568  Score: 8.0
      568   sum of last 100 : 1022.0
569  Score: 6.0
      569   sum of last 100 : 1016.0
570  Score: 14.0
      570   sum of last 100 : 1012.0
571  Score: 2.0
      571   sum of last 100 : 1016.0
572  Score: 10.0
      572   sum of last 100 : 1002.0
573  Score: 13.0
      573   sum of last 100 : 997.0
574  Score: 11.0
      574   sum of last 100 : 1003.0
575  Score: 15.0
      575   sum of last 100 : 1012.0
576  Score: 8.0
      576   sum of last 100 : 1018.0
577  Score: 16.0
      577   sum of last 100 : 1021.0
578  Score: 9.0
      578   sum of last 100 : 1028.0
579  Score: 14.0
      579   sum of last 100 : 1028.0
580  Score: 14.0
      580   sum of last 100 : 1032.0
581  Score: 5.0
      581   sum of last 100 : 1029.0
```

```
582  Score: 12.0
        582   sum of last 100 : 1020.0
583  Score: 9.0
        583   sum of last 100 : 1026.0
584  Score: 12.0
        584   sum of last 100 : 1022.0
585  Score: 10.0
        585   sum of last 100 : 1020.0
586  Score: 9.0
        586   sum of last 100 : 1018.0
587  Score: 11.0
        587   sum of last 100 : 1017.0
588  Score: 10.0
        588   sum of last 100 : 1022.0
589  Score: 3.0
        589   sum of last 100 : 1016.0
590  Score: 18.0
        590   sum of last 100 : 1000.0
591  Score: 17.0
        591   sum of last 100 : 1014.0
592  Score: 9.0
        592   sum of last 100 : 1021.0
593  Score: 14.0
        593   sum of last 100 : 1016.0
594  Score: 20.0
        594   sum of last 100 : 1026.0
595  Score: 8.0
        595   sum of last 100 : 1034.0
596  Score: 13.0
        596   sum of last 100 : 1029.0
597  Score: 11.0
        597   sum of last 100 : 1030.0
598  Score: 12.0
        598   sum of last 100 : 1032.0
599  Score: 18.0
        599   sum of last 100 : 1034.0
600  Score: 9.0
        600   sum of last 100 : 1037.0
601  Score: 12.0
        601   sum of last 100 : 1040.0
602  Score: 16.0
        602   sum of last 100 : 1037.0
603  Score: 9.0
        603   sum of last 100 : 1045.0
604  Score: 11.0
        604   sum of last 100 : 1048.0
605  Score: 13.0
        605   sum of last 100 : 1046.0
606  Score: 5.0
        606   sum of last 100 : 1044.0
607  Score: 16.0
        607   sum of last 100 : 1039.0
608  Score: 11.0
        608   sum of last 100 : 1045.0
609  Score: 20.0
        609   sum of last 100 : 1048.0
610  Score: 12.0
        610   sum of last 100 : 1054.0
611  Score: 3.0
        611   sum of last 100 : 1061.0
612  Score: 15.0
        612   sum of last 100 : 1053.0
613  Score: 10.0
        613   sum of last 100 : 1055.0
```

```
614  Score: 7.0
        614   sum of last 100 : 1055.0
615  Score: 9.0
        615   sum of last 100 : 1051.0
616  Score: 9.0
        616   sum of last 100 : 1055.0
617  Score: 17.0
        617   sum of last 100 : 1058.0
618  Score: 3.0
        618   sum of last 100 : 1071.0
619  Score: 15.0
        619   sum of last 100 : 1060.0
620  Score: 15.0
        620   sum of last 100 : 1067.0
621  Score: 19.0
        621   sum of last 100 : 1072.0
622  Score: 16.0
        622   sum of last 100 : 1080.0
623  Score: 4.0
        623   sum of last 100 : 1086.0
624  Score: 13.0
        624   sum of last 100 : 1076.0
625  Score: 17.0
        625   sum of last 100 : 1083.0
626  Score: 9.0
        626   sum of last 100 : 1090.0
627  Score: 12.0
        627   sum of last 100 : 1079.0
628  Score: 7.0
        628   sum of last 100 : 1077.0
629  Score: 15.0
        629   sum of last 100 : 1075.0
630  Score: 14.0
        630   sum of last 100 : 1076.0
631  Score: 12.0
        631   sum of last 100 : 1083.0
632  Score: 7.0
        632   sum of last 100 : 1082.0
633  Score: 14.0
        633   sum of last 100 : 1073.0
634  Score: 4.0
        634   sum of last 100 : 1073.0
635  Score: 5.0
        635   sum of last 100 : 1062.0
636  Score: 14.0
        636   sum of last 100 : 1057.0
637  Score: 6.0
        637   sum of last 100 : 1054.0
638  Score: 17.0
        638   sum of last 100 : 1057.0
639  Score: 4.0
        639   sum of last 100 : 1068.0
640  Score: 8.0
        640   sum of last 100 : 1059.0
641  Score: 4.0
        641   sum of last 100 : 1054.0
642  Score: 0.0
        642   sum of last 100 : 1053.0
643  Score: 1.0
        643   sum of last 100 : 1042.0
644  Score: 10.0
        644   sum of last 100 : 1035.0
645  Score: 9.0
        645   sum of last 100 : 1031.0
```

```
646  Score: 11.0
      646   sum of last 100 : 1035.0
647  Score: 12.0
      647   sum of last 100 : 1031.0
648  Score: 15.0
      648   sum of last 100 : 1031.0
649  Score: 14.0
      649   sum of last 100 : 1037.0
650  Score: 9.0
      650   sum of last 100 : 1040.0
651  Score: 15.0
      651   sum of last 100 : 1043.0
652  Score: 18.0
      652   sum of last 100 : 1049.0


653  Score: 16.0
      653   sum of last 100 : 1053.0
654  Score: 17.0
      654   sum of last 100 : 1057.0
655  Score: 14.0
      655   sum of last 100 : 1060.0
656  Score: 10.0
      656   sum of last 100 : 1066.0
657  Score: 10.0
      657   sum of last 100 : 1061.0
658  Score: 16.0
      658   sum of last 100 : 1064.0
659  Score: 19.0
      659   sum of last 100 : 1078.0
660  Score: 17.0
      660   sum of last 100 : 1092.0
661  Score: 18.0
      661   sum of last 100 : 1107.0
662  Score: 16.0
      662   sum of last 100 : 1116.0
663  Score: 15.0
      663   sum of last 100 : 1126.0
664  Score: 16.0
      664   sum of last 100 : 1132.0
665  Score: 18.0
      665   sum of last 100 : 1142.0
666  Score: 12.0
      666   sum of last 100 : 1144.0
667  Score: 12.0
      667   sum of last 100 : 1149.0
668  Score: 16.0
      668   sum of last 100 : 1159.0
669  Score: 10.0
      669   sum of last 100 : 1167.0
670  Score: 11.0
      670   sum of last 100 : 1171.0
671  Score: 13.0
      671   sum of last 100 : 1168.0
672  Score: 15.0
      672   sum of last 100 : 1179.0
673  Score: 18.0
      673   sum of last 100 : 1184.0
674  Score: 13.0
      674   sum of last 100 : 1189.0
675  Score: 6.0
      675   sum of last 100 : 1191.0
676  Score: 14.0
      676   sum of last 100 : 1182.0
```

```
677  Score: 11.0
        677   sum of last 100 : 1188.0
678  Score: 18.0
        678   sum of last 100 : 1183.0
679  Score: 13.0
        679   sum of last 100 : 1192.0
680  Score: 9.0
        680   sum of last 100 : 1191.0
681  Score: 8.0
        681   sum of last 100 : 1186.0
682  Score: 17.0
        682   sum of last 100 : 1189.0
683  Score: 17.0
        683   sum of last 100 : 1194.0
684  Score: 8.0
        684   sum of last 100 : 1202.0
685  Score: 19.0
        685   sum of last 100 : 1198.0
686  Score: 14.0
        686   sum of last 100 : 1207.0
687  Score: 9.0
        687   sum of last 100 : 1212.0
688  Score: 13.0
        688   sum of last 100 : 1210.0
689  Score: 6.0
        689   sum of last 100 : 1213.0
690  Score: 19.0
        690   sum of last 100 : 1216.0
691  Score: 14.0
        691   sum of last 100 : 1217.0
692  Score: 19.0
        692   sum of last 100 : 1214.0
693  Score: 20.0
        693   sum of last 100 : 1224.0
694  Score: 6.0
        694   sum of last 100 : 1230.0
695  Score: 13.0
        695   sum of last 100 : 1216.0
696  Score: 15.0
        696   sum of last 100 : 1221.0
697  Score: 15.0
        697   sum of last 100 : 1223.0
698  Score: 11.0
        698   sum of last 100 : 1227.0
699  Score: 19.0
        699   sum of last 100 : 1226.0
700  Score: 18.0
        700   sum of last 100 : 1227.0
701  Score: 18.0
        701   sum of last 100 : 1236.0
702  Score: 17.0
        702   sum of last 100 : 1242.0
703  Score: 16.0
        703   sum of last 100 : 1243.0
704  Score: 11.0
        704   sum of last 100 : 1250.0
705  Score: 16.0
        705   sum of last 100 : 1250.0
706  Score: 19.0
        706   sum of last 100 : 1253.0
707  Score: 13.0
        707   sum of last 100 : 1267.0
708  Score: 6.0
        708   sum of last 100 : 1264.0
```

```
709  Score: 9.0
        709   sum of last 100 : 1259.0
710  Score: 14.0
        710   sum of last 100 : 1248.0
711  Score: 15.0
        711   sum of last 100 : 1250.0
712  Score: 13.0
        712   sum of last 100 : 1262.0
713  Score: 19.0
        713   sum of last 100 : 1260.0
714  Score: 14.0
        714   sum of last 100 : 1269.0
715  Score: 18.0
        715   sum of last 100 : 1276.0
716  Score: 16.0
        716   sum of last 100 : 1285.0
717  Score: 14.0
        717   sum of last 100 : 1292.0
718  Score: 18.0
        718   sum of last 100 : 1289.0
End in episode  718
```