


```
HTTHHHHTHTHTTTTHTHTHHHTHTHTHTHTHTHTHTHTTTTHTHTHTT
2D2
THTHTHHHTHHHTTTTHTHTHHHTHTHTTHTHTHHHTHTHTHTHHHTT
1D20
THHHHTHHHTHTTTTTHHHHTHTHHHHHHHHHTTTTHTHHHHHTTT
0D0
```

Sample Output

```
1
-1
4
3
18
```