

# Powers

This is a regex golf problem. You have to write a regex that matches all lines from one list and none from the second one. Matching is implemented as Perl's `m//`, so it's not a precise match. E.g. to match "SPOJ" you don't need regex `/^SPOJ$/` since it's enough to write `/PO/` or `/J/`.

The regexes submitted should be compatible with Perl regular expressions (version 5.20.1).

Score is calculated as follows: it's equal to the length of your regex and for every line from the first list that's not matched by your regex  $X$  points are added to your score. Analogically, for every line from the second list that's matched by your regex  $X$  points are added to your score. The lower your score is, the better.  $X$  often equals 10 but it's different in some problems. Check below this problem's  $X$  value.

To quickly check the quality of your solution visit the original [regex golf project](#).

Please don't look for solutions for this problem online or at least don't post them here if you didn't come up with them on your own.

## Match all of these...

```
x
xx
xxxx
xxxxxxxx
xxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxx... [32 chars]
xxxxxxxxxxxxxxxx... [64 chars]
xxxxxxxxxxxxxxxx... [128 chars]
xxxxxxxxxxxxxxxx... [256 chars]
xxxxxxxxxxxxxxxx... [512 chars]
xxxxxxxxxxxxxxxx... [1024 chars]
```

## And none of these...

```
xxx
xxxxx
xxxxxxx
xxxxxxxx
xxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxx... [48 chars]
xxxxxxxxxxxxxxxx... [160 chars]
xxxxxxxxxxxxxxxx... [401 chars]
xxxxxxxxxxxxxxxx... [600 chars]
```

xxxxxxxxxxxxxxxx... [1025 chars]

**X = 10**