

Submission

ID	DATE	PROBLEM	STATUS	CPU	LANG
	TEST CASES				
8200069	03:26:15	Perfect Pth Powers	✔ Accepted	0.01 s	C++
	✔✔				

Submission contains 1 file: [download zip archive](#)

FILENAME	FILESIZE	SHA-1 SUM	
perfectpowers.cpp	981 bytes	947d3c0297940fdaa78fb0de2fb0554be7beddf8	download

Edit and resubmit this submission.

perfectpowers.cpp

```
1 #include <bits/stdc++.h>
2
3 #define INF 9999999
4
5 using namespace std;
6
7
8 int main() {
9
10     long long n;
11     flag;
12     Help .e (cin >> n && n != 0) {
13
```

```
14     flag = (n < 0);
15     n = abs(n);
16     long long cur = 2;
17     while (1) {
18         if (cur * cur > n) {
19             cout << "1\n";
20             break;
21         }
22         if (n % cur == 0) {
23             long long nn = n, cnt = 0;
24             bool flg = 0;
25             while (1) {
26                 if (nn == 1) {
27                     flg = 1;
28                     break;
29                 }
30                 if (nn % cur != 0) break;
31                 nn /= cur;
32                 cnt++;
33             }
34             if (flg && (cnt % 2 == 1 || !flag)) {
35                 cout << cnt << endl;
36                 break;
37             }
38         }
39         cur++;
40     }
41 }
42
43
44
45 return 0;
46 }
```