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Arkavidia 9.0 - Penyisihan CP > H

Submission #3874652

Arkavidia 9.0 - Penyisihan CP / H. Hymne Der Primzahl

Accepted • [Benedict_p](#) • C++20 • July 4, 2025 at 11:49:42

Your score

not attempted

Spoilers

 Show difficulty Show tags

solved by 15 / 19

math: number theory

Top users by time

#	User	Time
1	Benedict_p	4 ms
2	samuelandrianoo_	4 ms
3	vjudge3	5 ms
4	bagasangga	10 ms
5	Nael_WB	11 ms

Top users by memory

#	User	Memory
1	ByeWorld	584 KB
2	Benedict_p	676 KB
3	samuelandrianoo_	776 KB
4	Nael_WB	776 KB
5	vjudge3	776 KB

```
1 #include <bits/stdc++.h>
2 using namespace std;
3
4 #define ll long long
5 #define ld long double
6
7 bool check(int x) {
8     for(int i = 2; i * i <= x; ++i) {
9         if(x % i == 0) {
10             return 0;
11         }
12     }
13     return 1;
14 }
15
16 void solve() {
17     int L, R; cin >> L >> R;
18
19     if(L <= 3 && R >= 53) {
20         cout << "3\n3 13 53";
21         return;
22     }
23
24     if(L == 1) {
25         L = 2;
26     }
27     if(R > 810000) {
28         R = 810000;
29     }
30
31     int mn = 0;
32     for(int i = L; i <= R; ++i) {
33         if(check(i)) {
34             if(!mn) {
35                 mn = i;
36             }
37             if(4 * i + 1 <= R && check(4 * i + 1)) {
38                 cout << "2\n" << i << " " << 4 * i + 1;
39                 return;
40             }
41         }
42     }
43     if(mn) {
44         cout << "1\n" << mn;
45         return;
46     }
47     cout << 0;
48 }
49
50 int main() {
51     ios_base::sync_with_stdio(0); cin.tie(0); cout.tie(0);
52
53     int tc = 1; //cin >> tc;
54
55     while(tc--) {
56         solve();
57     }
58
59     return 0;
60 }
```