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Pythagorean

Problem

Submissions

Leaderboard

General pythagorean formula is $a^2 + b^2 = c^2$. where a, b, c are positive integers. Find the a, b values when value of c^2 is given.

If given values cannot be used to make a triple, simply print -1 -1 otherwise print the value of a, b . Note that a, b should be sorted in ascending order.

Input Format

Value of c^2

Constraints

$$0 < c^2 < 2000$$

Output Format

sorted a, b or -1 -1 as explained in problem statement

Sample Input 0

25

Sample Output 0

3 4

Explanation 0

 $3^2 + 4^2 = 5^2$, this satisfies the equation.

Sample Input 1

36

Sample Output 1

-1 -1

Explanation 1

36 cannot be used to satisfy the equation

f t in

Contest ends in a day

Submissions: 48

Max Score: 75

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C



```
1 #include <stdio.h>
2 #include <math.h>
3 int main() {
4     int c,csq,check=0;
5     scanf("%d",&csq);
6     if(csq<0 || csq>2000){
7         printf("%d %d",-1,-1);
8     }
9     else{
10        c = sqrt(csq);
11        for (int a = 1; a < c; ++a) {
12            for (int b = 1; b < c; ++b) {
13                if(pow(a,2) + pow(b,2) == pow(c,2) && pow(c,2)==csq){
14                    printf("%d %d",a,b);
15                    check=1;
16                    break;
17                }
18            }
19            if(check==1)
20                break;
21        }
22        if(check==0)
23            printf("%d %d",-1,-1);
24    }
25
26    return 0;
27 }
28
```

Line: 1 Col: 1

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