



| | | |
|--|--|-----------------------------------|
|  Marwadi University | Marwadi University Faculty of Technology Department of Information and Communication Technology | |
| Sem : 4 | Name : VEDANT BHARAD | |
| Day : 79 | Date : 4/1/2023 | Enrollment No: 92100133023 |

CP Club 365 Days Challenge

Programming language – C++

Problem Statement

https://www.codechef.com/DSAPREP_01/problems/PIXDAM

| | | |
|---|--|-----------------------------------|
|  Marwadi University | Marwadi University Faculty of Technology Department of Information and Communication Technology | |
| Sem : 4 | Name : VEDANT BHARAD | |
| Day : 79 | Date : 4/1/2023 | Enrollment No: 92100133023 |

Your Code:

```
// 0x79Day of 0x365Days challenge
// VEDANT BHARAD
// 4-1-2023
#include <bits/stdc++.h>
using namespace std;
int main()
{
    int t;
    cin>>t;
    while(t--)
    {
        long h,w,x,y,k;
        cin>>h>>w>>x>>y>>k;
        long temp;
        temp = ((w-x)*(w-x))+((h-y)*(h-y));
        if(sqrt(temp)<k)
            cout<<1<<endl;
        else
            cout<<0<<endl;
    }
    return 0;
}
```

Output (Screen Shot):

[←](#)
[→](#)
[↺](#)
[↻](#)
[🏠](#)
[codechef.com/DSAPREP_01/problems/PIXDAM?tab=statement](#)

[🔗](#)
[☆](#)
[🔍](#)
[📖](#)

[←](#)
Pixel Damage
Scored
[Prev Problem](#)
[Next Problem](#)
[🔧](#)

Problem Code: PIXDAM Status: — Unattempted

Submission Ends in:

814 Days
 22 Hrs
 35 Min
 13 Sec

Statement
Submissions
Solution

Sample 1:

| Input | Output |
|-----------|--------|
| 5 | 1 |
| 2 3 3 2 1 | 0 |
| 2 3 1 1 2 | 1 |
| 2 3 1 1 3 | 0 |
| 2 3 0 2 3 | 1 |
| 2 3 3 1 2 | |


Explanation:

The rectangle has height $H = 2$ and width $W = 3$ in all test cases. Therefore, the distance from the bottom right corner to the left edge and the distance from the bottom right corner to the top edge are 3 and 2 respectively.

Example case 1: The given point P is at distance $X = 3$ from the left edge and at distance $Y = 2$ from the top edge. Therefore, its distance from the bottom right corner is $\sqrt{(3-3)^2 + (2-2)^2} = 0$ which is less than $K = 1$, so the answer is 1.

Example case 2: The given point P is at distance $X = 1$ from the left edge and at distance $Y = 1$ from the top edge. Therefore, its distance from the bottom right corner is $\sqrt{(3-1)^2 + (2-1)^2} = \sqrt{5}$ which is greater than $K = 1$, so the answer is 0.

C++17


Problem Solver Badge
 11 / 50
 
 Next Problem

Status: ✓ Correct Answer
 Submission ID: [84238420](#)

Time: 0.03s

| Sub-Task | Task # | Result (time) |
|----------|--------|---------------|
| 1 | 1 | AC (0.003869) |
| 1 | 2 | AC (0.003823) |
| 1 | 3 | AC (0.033000) |
| 1 | 4 | AC (0.032442) |
| 1 | 5 | AC (0.031233) |

[Upload code as file](#)
[▶ Compile & Run](#)
[Submit Code](#)

| | | |
|--|--|-----------------------------------|
|  Marwadi University | Marwadi University Faculty of Technology Department of Information and Communication Technology | |
| Sem : 4 | Name : VEDANT BHARAD | |
| Day : 79 | Date : 4/1/2023 | Enrollment No: 92100133023 |

Understanding about problem:

- In this task there are h,w,x,y,k int as a input.
- In this task output will be in 0 or 1 which depends on one equation which is $((w-x)*(w-x))+((h-y)*(h-y))$ and its root if that answer is less then k then return 1 else 0.

Note: If you can't understand the problem, feel free to contact us and we'll help you. Please don't copy and paste from anywhere.

ALL THE BEST

Team CP Club