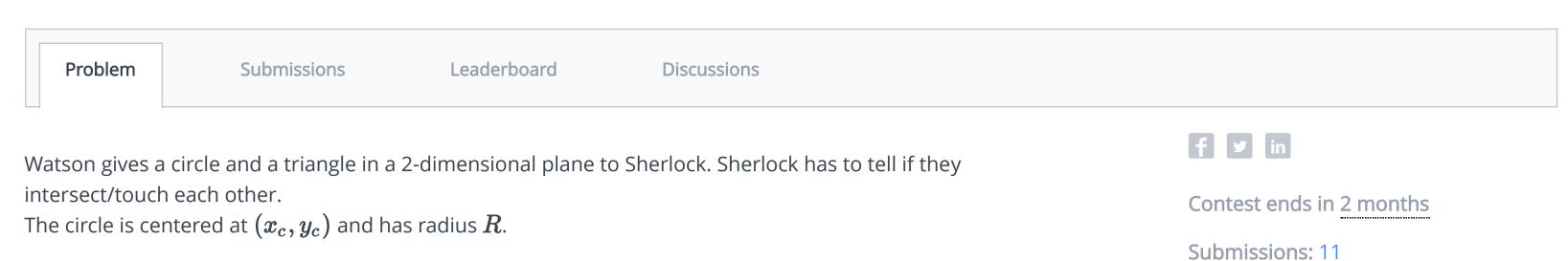
Max Score: 100

More

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Sherlock and Geometry





Input Format

The first line contains $oldsymbol{T}$, the number of test cases.

Each test case consists of x_c , y_c and R in one line.

The next three lines each contains x_i, y_i denoting the vertices of the triangle.

Output Format

For each test case, print YES if the triangle touches or intersects the circle; otherwise, print NO.

All Contests > Проектування та аналіз обчислювальних алгоритмів 2019 > Sherlock and Geometry

Constraints

```
egin{array}{l} 1 \leq T \leq 30000 \ 1 \leq R \leq 2000 \ -2000 \leq x_c, y_c \leq 2000 \ -5000 \leq x_i, y_i \leq 5000 \end{array}
```

Note: There will be no degenerate triangles (i.e. triangles with area 0)

Sample Input

```
2
0 0 10
10 0
15 0
15 5
0 0 10
0 0
5 0
5 5
```

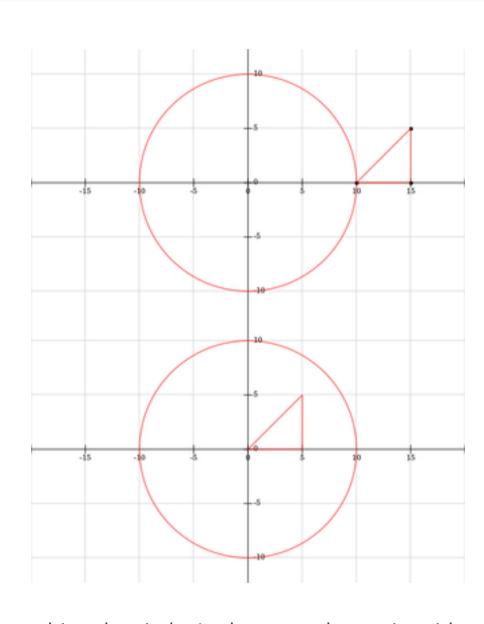
Sample Output

```
YES
NO
```

Explanation

<u>Lupload Code as File</u>

Test against custom input



In the first case, the triangle is touching the circle. In the second case, it neither touches nor intersects the circle.

```
Current Buffer (saved locally, editable) 🤌 🕠
                                                                                                Python 3
 1 #!/bin/python3
 2
    import os
    import sys
    # Complete the solve function below.
    def solve(x, y, r, t1, t2, t3):
 9 if __name__ == '__main__':
        fptr = open(os.environ['OUTPUT_PATH'], 'w')
10
11
        t = int(input())
12
13
        for t_itr in range(t):
14 🔻
            xyr = input().split()
15
16
            x = int(xyr[0])
17
18
            y = int(xyr[1])
19
20
            r = int(xyr[2])
21
22
            t1 = list(map(int, input().rstrip().split()))
23
24
            t2 = list(map(int, input().rstrip().split()))
25
26
            t3 = list(map(int, input().rstrip().split()))
27
28
29
            result = solve(x, y, r, t1, t2, t3)
30
            fptr.write(result + '\n')
31
32
        fptr.close()
33
34
                                                                                                                       Line: 1 Col: 1
```

Submit Code

Run Code