

OPEN A CHALLENGE

First, open a challenge from the index.

2

- The second line contains 2 space-separated integers l_x and l_y that denote the width and height of one die respectively.

Your output should contain a single integer w denoting the maximum number of dies that can be cut.



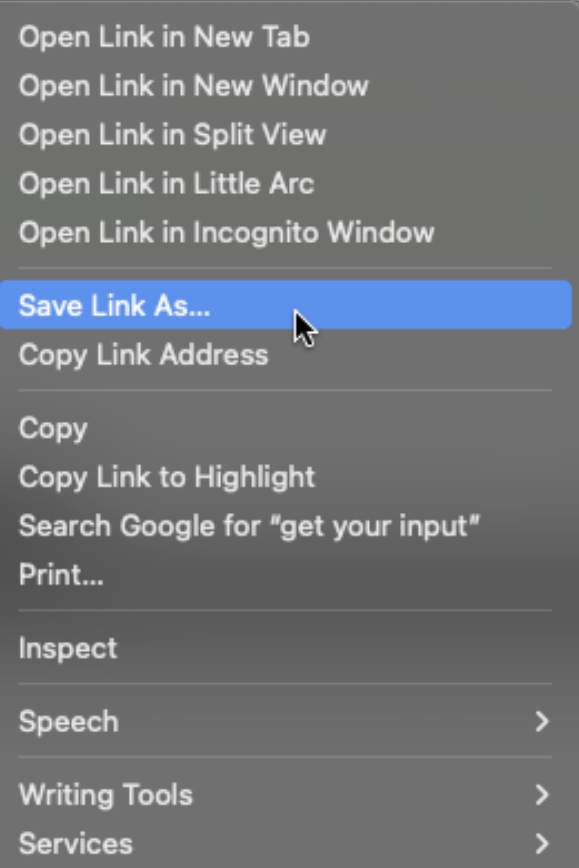
To begin, [get your input](#)

Answer:

Result

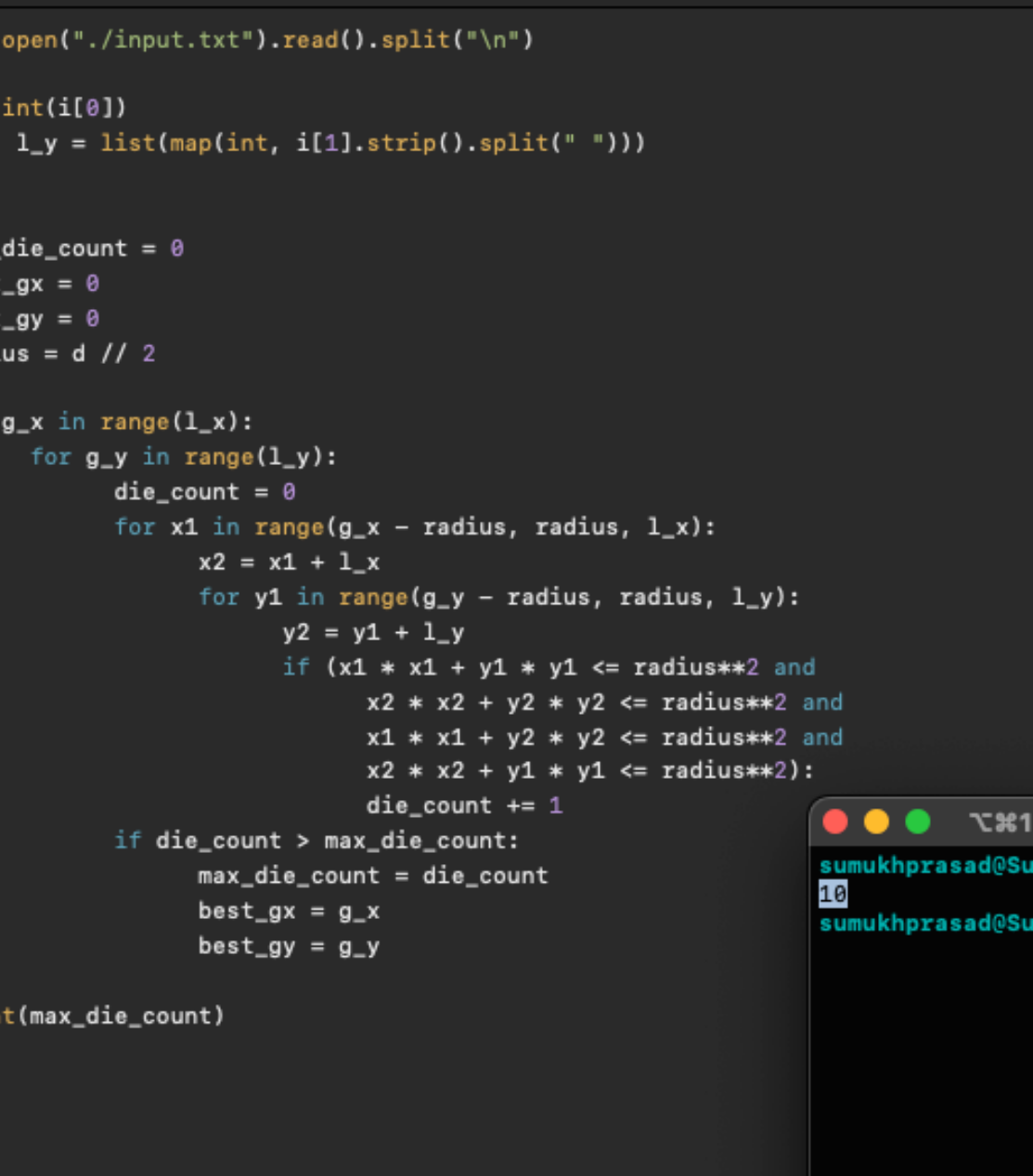
[Submit](#)

[See past submissions](#)



GET YOUR INPUT

Second, get your input from the challenge page. Inputs are usually large in size (>1MB), and opening them directly in a browser may cause the browser to hang. Participants are advised to download the inputs instead.

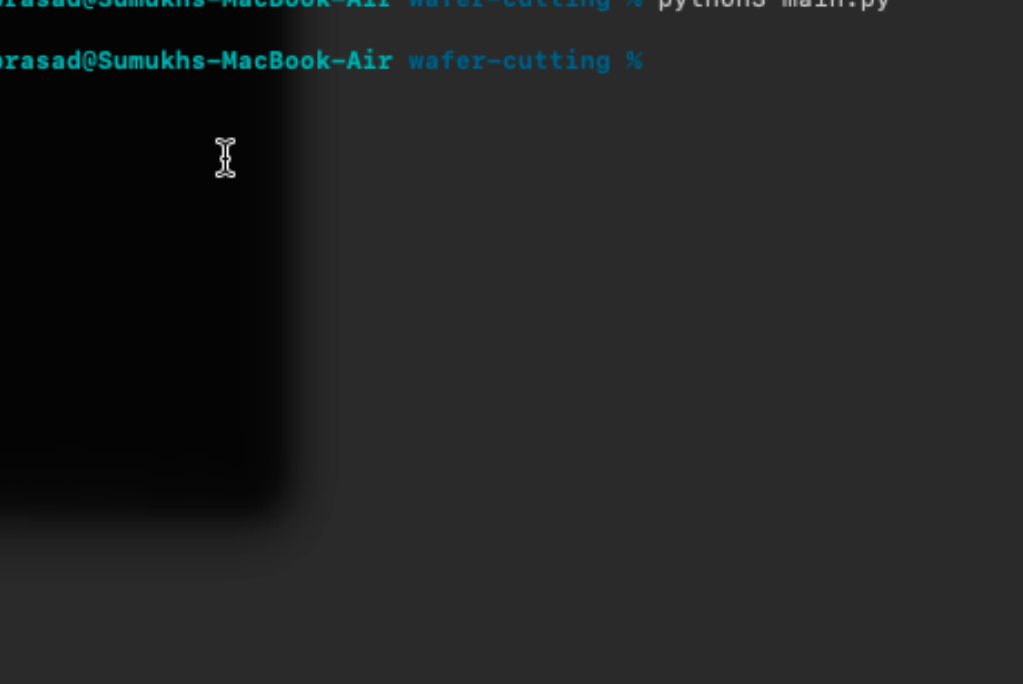


The image shows a code editor window titled "main.py" with a Python script. The script reads a file "input.txt", processes its contents, and prints the maximum die count. A terminal window is open in the bottom right corner, showing the command prompt and the output of the script.

```
1 i = open("./input.txt").read().split("\n")
2
3 d = int(i[0])
4 l_x, l_y = list(map(int, i[1].strip().split(" ")))
5
6
7 max_die_count = 0
8 best_gx = 0
9 best_gy = 0
10 radius = d // 2
11
12 for g_x in range(l_x):
13     for g_y in range(l_y):
14         die_count = 0
15         for x1 in range(g_x - radius, radius, l_x):
16             x2 = x1 + l_x
17             for y1 in range(g_y - radius, radius, l_y):
18                 y2 = y1 + l_y
19                 if (x1 * x1 + y1 * y1 <= radius**2 and
20                     x2 * x2 + y2 * y2 <= radius**2 and
21                     x1 * x1 + y2 * y2 <= radius**2 and
22                     x2 * x2 + y1 * y1 <= radius**2):
23                     die_count += 1
24             if die_count > max_die_count:
25                 max_die_count = die_count
26                 best_gx = g_x
27                 best_gy = g_y
28
29 print(max_die_count)
```

The terminal window shows the command prompt "sumukhprasad@Sumukhs-MacB" and the output "10".

Lines: 29 Characters: 658 Location: 140 Line: 8 Column: 11 658 byt



A terminal window titled "-zsh" with standard macOS window controls (red, yellow, green buttons) in the top-left corner. The terminal shows the user "sumukhprasad@Sumukhs-MacBook-Air" in the "wafer-cutting" directory. The command "python3 main.py" has been executed, and the output "10" is displayed on the next line. The cursor is positioned at the end of the second prompt line.

```
-zsh
sumukhprasad@Sumukhs-MacBook-Air wafer-cutting % python3 main.py
10
sumukhprasad@Sumukhs-MacBook-Air wafer-cutting %
```

SOLVE

Solve the challenge and obtain an output.

4

- The second line contains 2 space-separated integers l_x and l_y that denote the width and height of one die respectively.

Your output should contain a single integer w denoting the maximum number of dies that can be cut.



To begin, [get your input](#).

Answer:

[Submit](#)

[See past submissions](#)

SUBMIT

Submit your output on the challenge page.
Ensure that there are no trailing or leading spaces.



{codejam}

int y=2024;

LEADERBOARD

COUNTDOWN

EDIT PROFILE

LOG OUT

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WAFFER CUTTING SUBMISSIONS

Submission	Result	Stars	Time
10	CORRECT ANSWER	★	2024-08-28 08:39:39 +0530

< Back to question

REPEAT

Once a solution has been submitted, points are allotted based on the validity of the submission. From the submissions page, participants can go back to the index and continue working on other challenges.