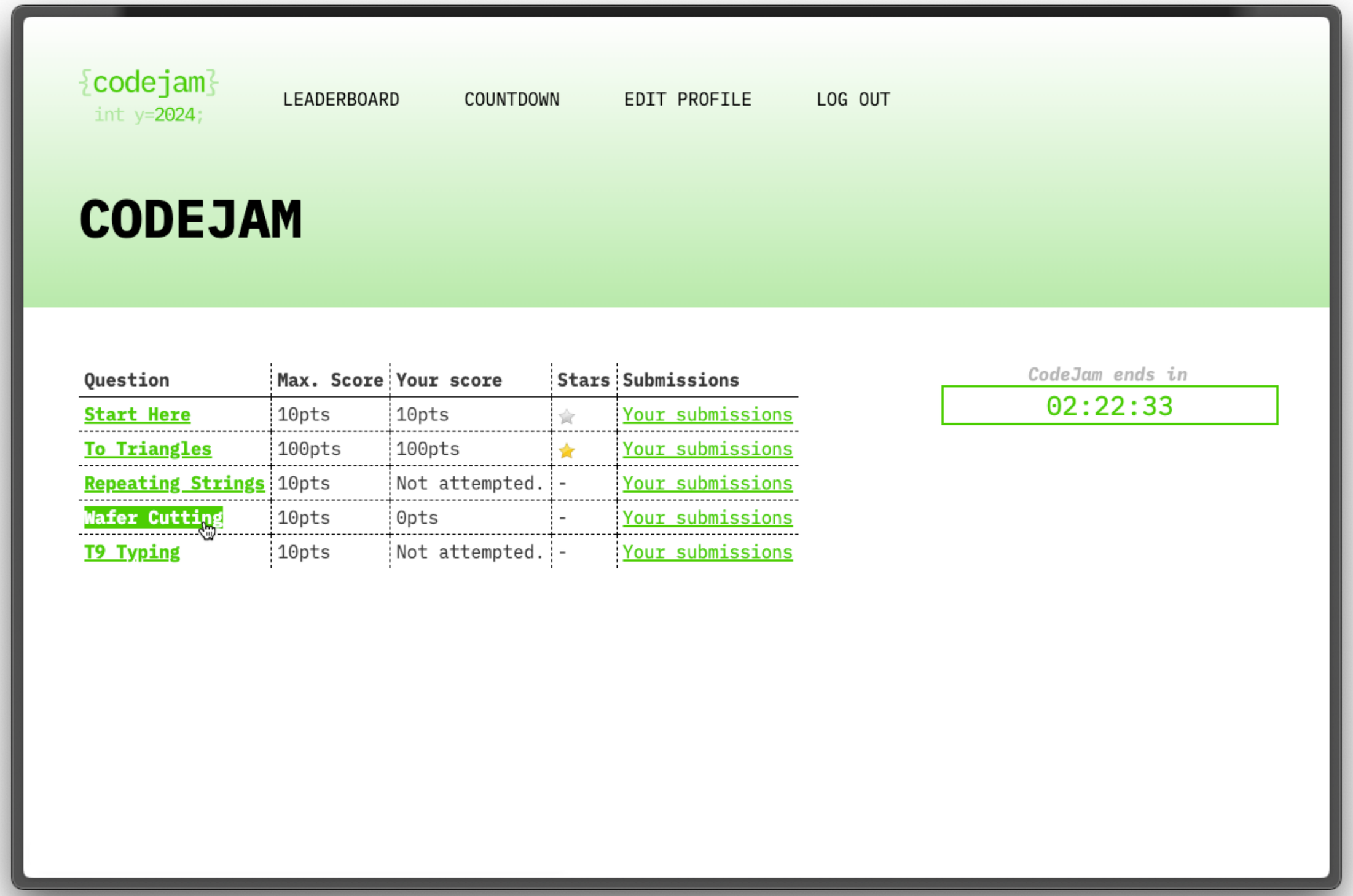
1



OPEN A CHALLENGE

First, open a challenge from the index.

- 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

Open Link in New Tab
Open Link in New Window
Open Link in Split View
Open Link in Little Arc
Open Link in Incognito Window
Save Link As...
Copy Link Address
Copy
Copy Link to Highlight
Search Google for "get your input"
Print...
Inspect
Speech
Writing Tools
Services

GET YOUR INPUT

Second, get your input from the challenge page. Inputs are ususally 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.

3

main.py

Python

```python
i = open("./input.txt").read().split("\n")

d = int(i[0])
l_x, l_y = list(map(int, i[1].strip().split(" ")))


max_die_count = 0
best_gx = 0
best_gy = 0
radius = d // 2

for g_x in range(l_x):
      for g_y in range(l_y):
            die_count = 0
            for x1 in range(g_x - radius, radius, l_x):
                  x2 = x1 + l_x
                  for y1 in range(g_y - radius, radius, l_y):
                        y2 = y1 + l_y
                        if (x1 * x1 + y1 * y1 <= radius**2 and
                              x2 * x2 + y2 * y2 <= radius**2 and
                              x1 * x1 + y2 * y2 <= radius**2 and
                              x2 * x2 + y1 * y1 <= radius**2):
                              die_count += 1
            if die_count > max_die_count:
                  max_die_count = die_count
                  best_gx = g_x
                  best_gy = g_y

print(max_die_count)
```

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

⌥⌘1 -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:

10

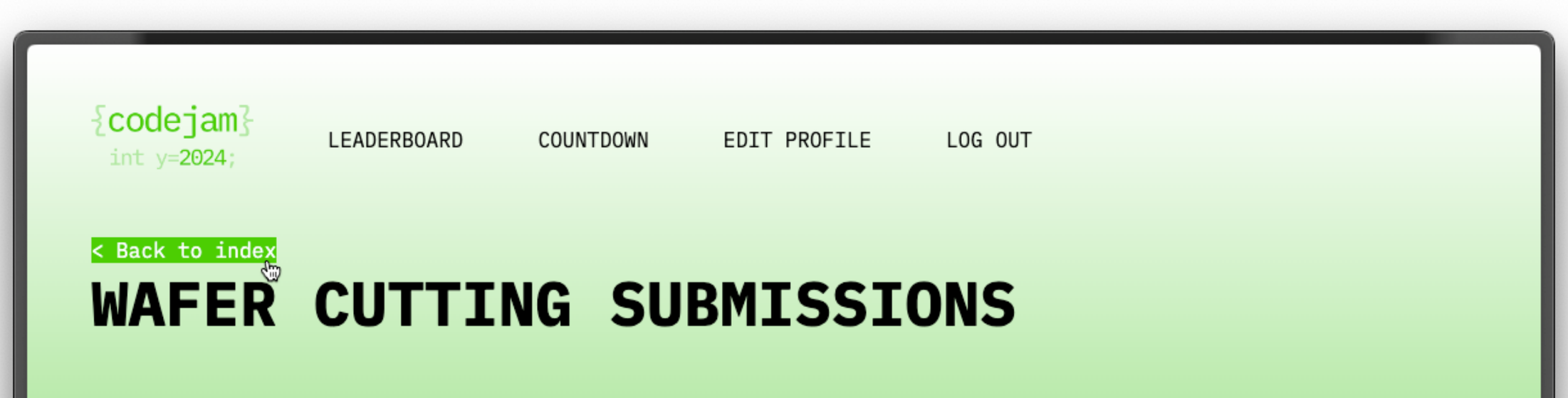
Submit

See past submissions

SUBMIT

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

5



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.