

# Advance Track Project

**BY- ARYAN CHOUDHARY(170152)**

**MENTOR - DHAWAL UPADHYAY**

**INSTRUCTOR IN CHARGE - Purushottam Kar**

# Problem

- I need a tool that can do the task of online ide.
- Which I can use before submitting my solution on online platform like codeforces, etc.
- To check the validity of my solution.

— — —

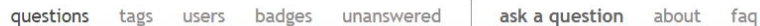
# Problem

- And protect my source code, because protection of source code is most important for a programmer.
- To avoid being caught in plagiarism, which sometimes happens when we forget to make our code private.

— — —

# Problem

- <https://discuss.codechef.com/questions/18669/what-does-codechef-do-to-prevent-cheating>



☒ questions ☐ tags ☐ users



9



1 faq cheating

retag | report

asked 23 Jul '13, 21:39

2★ anup ♦♦  
[2.2k] ●26●38●42  
accept rate: 23%

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2 Answers:

oldest answers newest answers popular answers



34



For long, we have had reported cases of cheating and to be honest in the beginning we chose to ignore them, assuming that those who cheat are small in number and only harm themselves, while the rest continue to learn. As we started growing, the participation increased. And the reported cases also went up. In the meantime, a new rating system was implemented which resulted in making people take pride in their standings in this system. We tried to [reason out](#) our stance on cheating, and during the course of these discussions we figured out that we must try and do something to make the contest fair to all. We started banning those who have been reported for cheating after disqualifying them from the contest which resulted in a good fall in their rating points. We did not stop there. We tried calling and talking to each one of those who were banned to figure out why they did so. We also lifted the ban of a few of them after they confessed their mistake and pledged to not do it again.

Some of our findings as a result of this discussion are:

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Question tags:

cheating **x590**

faq x195

question asked: 23 Jul '13, 21:39

question was seen: 8,076 times

last updated: 26 Jul '13, 01:08

### Related questions

What does CodeChef do to prevent cheating? - CodeChef Discuss - Google Chrome

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## What does CodeChef do to prevent cheating?

👍

9

🗨️

🌟

1

faq

cheating

retag | report

asked 23 Jul '13, 21:39

👤

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[2.2k]

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✅

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Some of our findings as a result of this discussion are:

- People use online IDE's being ignorant of how to protect their submissions. This has been the most commonly admitted reason.
- People get other's codes from the online IDE's and submit the same as their code.
- People find a solution on some online resource and use it without giving any attribution.
- People have been found to use multiple id's to participate in the same contest. They make submissions from both the id's
- People discuss strategies and implementation and also share code amongst themselves and submit the same code.
- People obfuscate their code to try and avoid being caught.
- People who have been found cheating do not belong to only one particular nationality. We have found people from

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Question tags:

[cheating](#) **x590**

[faq](#) **x195**

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### Related questions

Does CodeChef have any Code Of Conduct?

How do I get email notification for contest running/starting on codechef?

Is the hardest easy problem easier than the easiest medium problem?

How can i submit solutions to previous contests?

Programming languages for IOI and INOI

Userscript: how to submit solutions to previous contest problems

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What does CodeChef do to prevent cheating?

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9

🗨️

☆

1

faq cheating

retag | report

asked 23 Jul '13, 21:39

2+ anup ++

[2.2k] 26 38 42

accept rate: 23%

add new comment

2 Answers:

oldest answers newest answers popular answers

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34

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Programming languages for IOI and INOI

Userscript: how to submit solutions to previous contest problems

**So, I present to you my project idea.**



# Solution

- Although there are many tools available online to solve this problem.
- I want to have my own software to serve this purpose.

— — —

# Project Idea Credits -

# Project Idea Credits -

- They have already released full featured application for public release (4 years ago).
- <http://codeforces.com/blog/entry/13141> (Blog).
- <https://github.com/dj3500/hightail> (Original application is created in Java).

---

# Project Idea Credits -

- And My mentor **DHAWAL UPADHYAY.**
- For suggesting me this project.

— — —

# Mid Term Status -

# Mid Term Status -

- Front End Task Completed.
- Added Buttons for each task.
- Added data grid.
- Added functionality of Browse Button.
- Added functionality of Fetch Button(Partial).

# Mid Term Status -

- Web Scraper.(Task Completed).
- Until now My Project can fetch Sample Input / Output and add then in a list.
- Writing Sample Input / Output to file was not completed.

— — —

**End Term Status -**



# End Term Status -

- Completed Back end.
- Able to write Sample Input / Output to file.
- Added separate file for Result.

— — —

# End Term Status -

- I was told to look at possibilities of using Powershell/Cmd -
- To speed up task.
- And run multiple Testcases at a time.
- And To deal with stdin and stdout of program.

---

# End Term Status -

- When Writing Entries in Data Grid Showed error.
- TO do this as I was suggested during mid term.
- To use some other function. Done.

Demo

ScreenShots.

AdvanceTrackProject

Path (URL)

Problem Statement URL

Fetch...

Path (.exe)

Path to Exectutable File

Browse...

Time Limit (in ms) -

2000

Total Test Cases

0

Run

Problem - 965B - Codeforces - Google Chrome

codeforces.com/problemset/problem/965/B

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**CODEFORCES**<sup>β</sup>

Sponsored by Telegram

aryanc403

|

Logout

HOME

CONTESTS

GYM

**PROBLEMSET**

GROUPS

RATING

API

VK CUP

CALENDAR

8 YEARS!

PROBLEMS

SUBMIT

STATUS

STANDINGS

CUSTOM TEST

B. Battleship

time limit per test: 1.5 seconds

memory limit per test: 256 megabytes

input: standard input

output: standard output

Arkady is playing Battleship. The rules of this game aren't really important.

There is a field of  $n \times n$  cells. There should be exactly one  $k$ -decker on the field, i. e. a ship that is  $k$  cells long oriented either horizontally or vertically. However, Arkady doesn't know where it is located. For each cell Arkady knows if it is definitely empty or can contain a part of the ship.

Consider all possible locations of the ship. Find such a cell that belongs to the maximum possible number of different locations of the ship.

**Input**

The first line contains two integers  $n$  and  $k$  ( $1 \leq k \leq n \leq 100$ ) — the size of the field and the size of the ship.

The next  $n$  lines contain the field. Each line contains  $n$  characters, each of which is either '#' (denotes a definitely empty cell) or '.' (denotes a cell that can belong to the ship).

**Output**

Output two integers — the row and the column of a cell that belongs to the maximum possible number of different locations of the ship.

If there are multiple answers, output any of them. In particular, if no ship can be placed on the field, you can output any cell.

**Examples**

input

4 3  
#..#  
#.#.  
#.#.

Copy

Codeforces Round #476 (Div. 2)

[Thanks, Telegram!]

Finished

Practice

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?

```
1 //for(auto a: x);
2 #include<iostream>
3 #include<bits/stdc++.h>
4 using namespace std;
5 #include<stdio.h>
6 #define fo(i,n) for(i=0;i<(n);++i)
7 #define LLI long long int
8 #define pb push_back
9 #define mp make_pair
10 #define X first
11 #define Y second
12 #define MAX 1000002
13 #define MOD 1000000007
14 |
15 LLI T,n,in,i,m,j,k,c,l;
16 LLI cnt[101][101];
17 vector <LLI> :: iterator it;
18
19 int main(void) {
20     ios_base::sync_with_stdio(false);
21     cin.tie(NULL);
22     cin>>n>>k;
23     char s[n+1][n+1];
24     bool t;
25     for(i=0;i<n;++i)
26     {
27         cin>>s[i];
```

Total errors: 0  
Total warnings: 0  
Size of output: 1.86515712738037 MiB

Abort Compilation

General: TDM-GCC 4.8.1 64-bit Release

Executing g++.exe...

g++.exe "C:\Users\Aryan\Desktop\Advance Track\sample soln\a.cpp" -o "C:\Users\Aryan\Desktop\Advance Track\sample soln\a.exe" -g3 -I"C:\Program Files (x86)\Dev-

Compilation succeeded in 1.14 seconds

```
a.cpp
1 //for(auto a: x);
2 #include<iostream>
3 #include<bits/stdc++.h>
4 using namespace std;
5 #include<stdio.h>
6 #define fo(i,n) for(i=0;i<(n);++i)
7 #define LLI long long int
8 #define pb push_back
9 #define mp make_pair
10 #define X first
11 #define Y second
12 #define MAX 1000002
13 #define MOD 1000000007
14 |
15 LLI T,n,in,i,m,j,k,c,l;
16 LLI cnt[101][101];
17 vector <LLI> :: iterator it;
18
19 int main(void) {
20     ios_base::sync_with_stdio(false);
21     cin.tie(NULL);
22     cin>>n>>k;
23     char s[n+1][n+1];
24     bool t;
25     for(i=0;i<n;++i)
26     {
27         cin>>s[i];
```

Total errors: 0

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Size of output: 1.86515712738037 MiB

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Compilation succeeded in 1.14 seconds



AdvanceTrackProject

Path (URL)

Problem Statement URL

Fetch...

Path (.exe)

Path to Exectutable File

Browse...

Time Limit (in ms) -

2000

Total Test Cases

0

Run

AdvanceTrackProject

Path (URL)

Problem Statement URL

Path (.exe)

Path to Exectutable File

Fetch...

Browse...

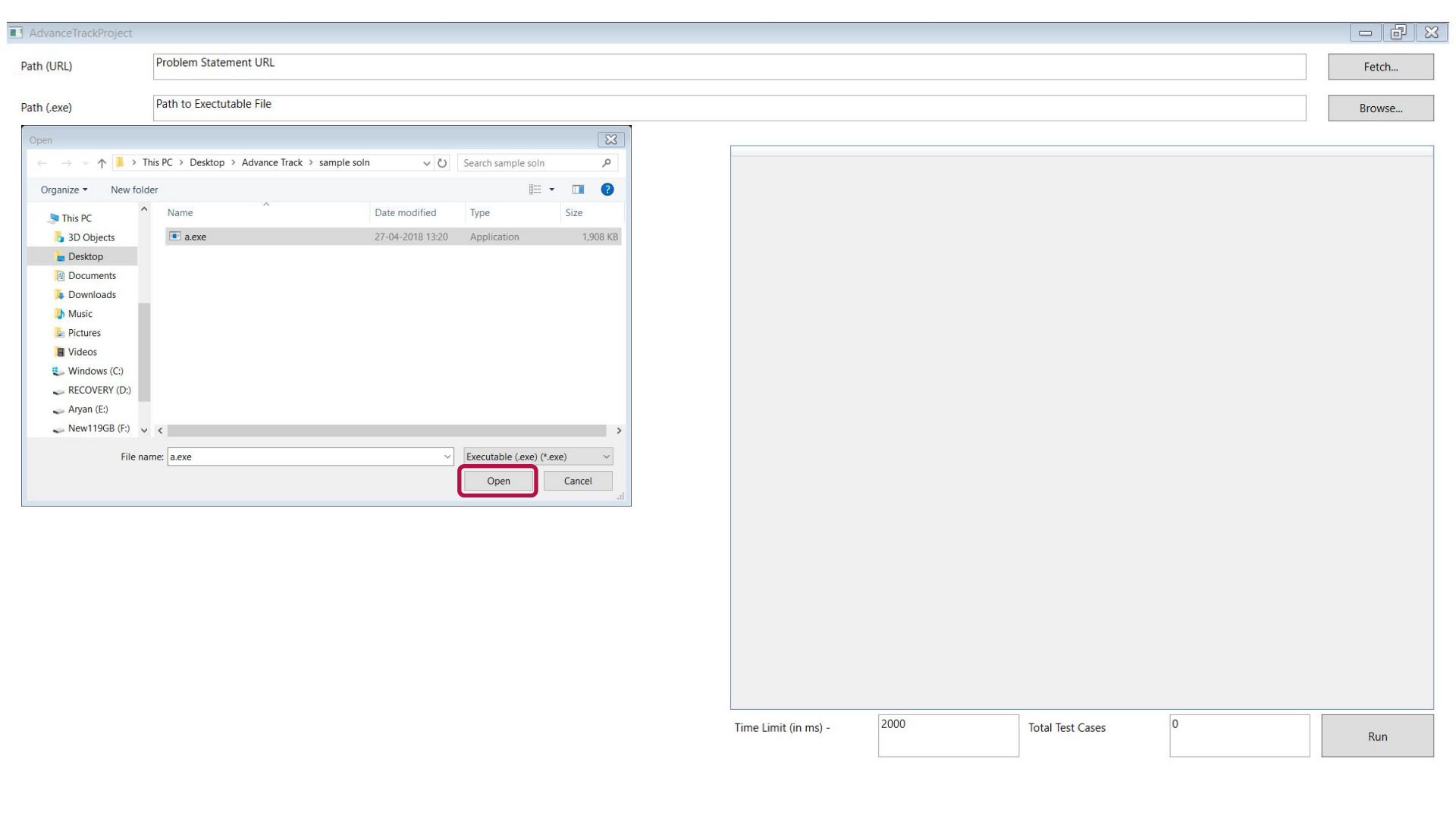
Time Limit (in ms) -

2000

Total Test Cases

0

Run



Path (URL)

Problem Statement URL

Fetch...

Path (.exe)

Path to Executable File

Browse...

Open

←

→

↶

↷

⬆

This PC > Desktop > Advance Track > sample soln

↺

↻

Search sample soln

🔍

Organize ▾ New folder

This PC

3D Objects

Desktop

Documents

Downloads

Music

Pictures

Videos

Windows (C:)

RECOVERY (D:)

Aryan (E:)

New119GB (F:)

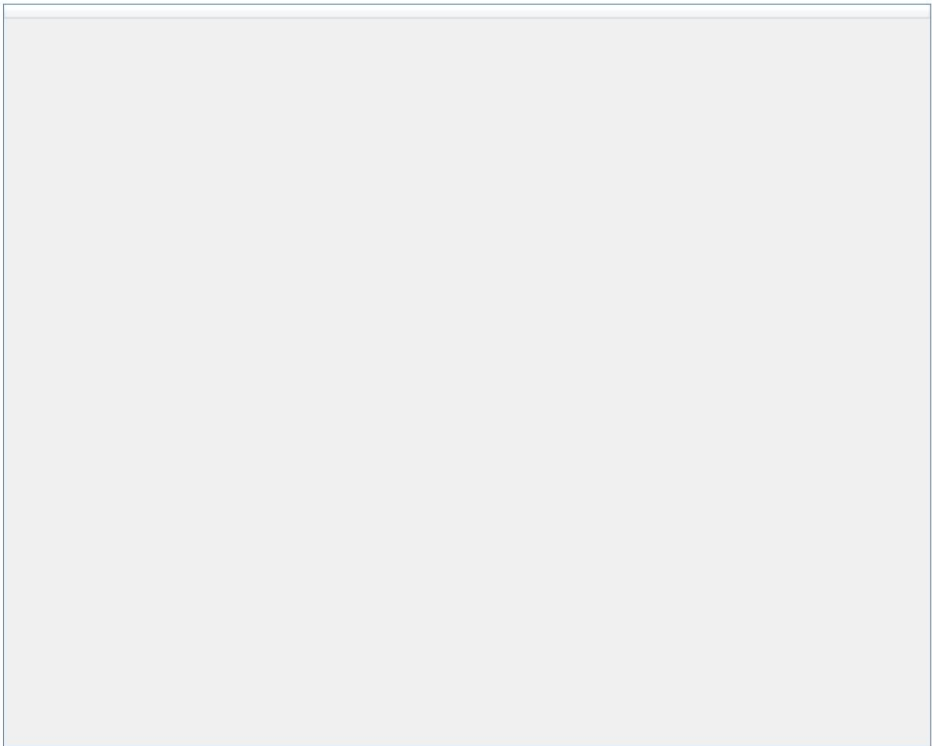
Name	Date modified	Type	Size
a.exe	27-04-2018 13:20	Application	1,908 KB

File name: a.exe

Executable (.exe) (\*.exe)

Open

Cancel



Time Limit (in ms) -

2000

Total Test Cases

0

Run

AdvanceTrackProject

Path (URL)

Problem Statement URL

Path (.exe)

C:\Users\Aryan\Desktop\Advance Track\sample soln\a.exe

Fetch...

Browse...

Time Limit (in ms) -

2000

Total Test Cases

0

Run

AdvanceTrackProject

Path (URL)

http://codeforces.com/problemset/problem/965/B

Path (.exe)

C:\Users\Aryan\Desktop\Advance Track\sample soln\1.a.exe

Fetch...

Browse...

Time Limit (in ms) -

2000

Total Test Cases

0

Run





AdvanceTrackProject

Path (URL)

http://codeforces.com/problemset/problem/965/B

Fetch...

Path (.exe)

C:\Users\Aryan\Desktop\Advance Track\sample soln\1.a.exe

Browse...

CODEFORCES

β

HOME

CONTESTS

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PROBLEMSET

GROUPS

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CALENDAR

8 YEARS!

PROBLEMS

SUBMIT

STATUS

STANDINGS

CUSTOM TEST

Enter | Register

🔍

Codeforces Round #476 (Div. 2)

[Thanks, Telegram!]

Finished

→ Virtual participation

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Start virtual contest

→ Problem tags

Implementation

No tag edit access

→ Contest materials

Announcement

Tutorial

B. Battleship

time limit per test 1.5 seconds

memory limit per test 256 megabytes

input standard input

output standard output

Akady is playing Battleship. The rules of this game aren't really important.

There is a field of  $n$  cells. There should be exactly one  $k$ -decker on the field, i. e. a ship that is  $k$  cells long oriented either horizontally or vertically. However, Akady doesn't know where it is located. For each cell Akady knows if it is definitely empty or can contain a part of the ship.

Consider all possible locations of the ship. Find such a cell that belongs to the maximum possible number of different locations of the ship.

Input

The first line contains two integers  $n$  and  $k$  — the size of the field and the size of the ship.

The next  $n$  lines contain the field. Each line contains  $n$  characters, each of which is either '#' (denotes a definitely empty cell) or '.' (denotes a cell that can belong to the ship).

Output

Output two integers — the row and the column of a cell that belongs to the maximum possible number of different locations of the ship.

If there are multiple answers, output any of them. In particular, if no ship can be placed on the field, you can output any cell.

Examples

input

4 3  
#.#  
#.#  
....  
.###

output

3 2

input

10 4  
#...##...  
#.#.#...  
..#.#.#.  
...#.#...  
#.#.#.#.  
.....#.#  
...#.#.#.  
#...#.#.  
.....#.#.  
...#.#...#

output

6 1

Test Case	Input	Expected Output	Output	Result
1	4 3 #.# #.# .... .###	3 2		
2	10 4 #...##... #.#.#... ..#.#.#. ...#.#... #.#.#.#. .....#.# ...#.#... #...#.#. .....#.#. ...#.#...#	6 1		
3	19 6 #####	1 8		

Time Limit (in ms) -


2000

Total Test Cases

3

Run



HOME CONTESTS GYM **PROBLEMSET** GROUPS RATING API VK CUP  CALENDAR 8 YEARS!

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

time limit per test 1.5 seconds  
memory limit per test 256 megabytes  
input standard input  
output standard output

There is a field of  $n$  cells. There should be exactly one  $k$ -decker on the field, i. e. a ship that is  $k$  cells long oriented either horizontally or vertically. However, Arkady doesn't know where it is located. For each cell Arkady knows if it is definitely empty or can contain a part of the ship.

**Input**

The first line contains two integers  $n$  and  $m$  — the size of the field and the size of the ship.

The next lines contain the field. Each line contains characters, each of which is either '#' (denotes a definitely empty cell) or '.' (denotes a cell that can belong to the ship).

Output two integers — the row and the column of a cell that belongs to the maximum possible number of different locations of the ship.

If there are multiple answers, output any of them. In particular, if no ship can be placed on the field, you can output any cell

32

```
10-4
#.....##.....
.#...#. ....
..#. .#. .#.
...#. #.....
.#. ##. #.
.....#. #
...#. ##.....
.#...#. .#.
.....#. .#.
...#. #...#
```

output

```
6 1
```

Codeforces Round #476 (Div. 2)  
[Thanks, Telegram!]

Finished

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Start virtual com

→ Problem tags


implementation

→ Contest materials

- Announcement
- Tutorial

[illegible]



HOME CONTESTS GYM **PROBLEMSET** GROUPS RATING API VK CUP  CALENDAR 8 YEARS!

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input
4 3 0.0 0.0 .... ... ... ...
output
3 2

```
10-4
#.....##.....
.#...#. ....
..#. .#. .#.
...#. #.....
..#. ##. #.
.....#. #
...#. ##.....
..#...#. .#.
.....#. .#.
...#. #...#
```

---

```
output
```

---

```
6 1
```

Codeforces Round #476 (Div. 2)  
[Thanks, Telegram!]

Finished

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Start virtual co

→ Problem tags

implementation

→ Contest materials

- Announcement
- Tutorial

[illegible]

Time Limit (in ms) -	2000	Total Test Cases	3	Run
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FileHomeShareView

sample soln

←→↶↷

Advance Track > sample soln

Search sample soln

Quick access

Desktop

Downloads

Documents

Pictures

Download

mid sem report

Result Generator

sample soln

OneDrive

This PC

3D Objects

Desktop

Documents

Downloads

Music

Pictures

Videos

Windows (C:)

RECOVERY (D:)

Aryan (E:)

New119GB (F:)

VirtualBox (G:)

Network

Name	Date modified	Type	Size
a.cpp	27-04-2018 13:41	C++ Source File	3 KB
a.exe	27-04-2018 13:41	Application	1,910 KB
exp1.txt	27-04-2018 13:36	Text Document	1 KB
exp2.txt	27-04-2018 13:36	Text Document	1 KB
exp3.txt	27-04-2018 13:36	Text Document	1 KB
in1.txt	27-04-2018 13:36	Text Document	1 KB
in2.txt	27-04-2018 13:36	Text Document	1 KB
in3.txt	27-04-2018 13:36	Text Document	1 KB
log1.txt	27-04-2018 13:36	Text Document	0 KB
log2.txt	27-04-2018 13:36	Text Document	0 KB
log3.txt	27-04-2018 13:36	Text Document	0 KB
out1.txt	27-04-2018 13:36	Text Document	0 KB
out2.txt	27-04-2018 13:36	Text Document	0 KB
out3.txt	27-04-2018 13:36	Text Document	0 KB
res1.txt	27-04-2018 13:36	Text Document	0 KB
res2.txt	27-04-2018 13:36	Text Document	0 KB
res3.txt	27-04-2018 13:36	Text Document	0 KB



Fetch...

Browse...

[Enter](#) | [Register](#)

[HOME](#)
[CONTESTS](#)
[GYM](#)
[PROBLEMSET](#)
[GROUPS](#)
[RATING](#)
[API](#)
[VK CUP](#)

[CALENDAR](#)
[8 YEARS!](#)

[PROBLEMS](#)
[SUBMIT](#)
[STATUS](#)
[STANDINGS](#)
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ed #476 (Div. 2)  
telegram!]

Finished

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Start virtual co

→ Problem tags

implementation

→ Contest materials

- Announcement
- Tutorial

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Consider all possible locations of the ship. Find such a cell that belongs to the maximum possible number of different locations of the ship.

Input

The first line contains two integers  $n$  and  $m$  — the size of the field and the size of the ship.

The next lines contain the field. Each line contains characters, each of which is either '#' (denotes a definitely empty cell) or '.' (denotes a cell that can belong to the ship).

### Output

Output two integers — the row and the column of a cell that belongs to the maximum possible number of different locations of the ship.

If there are multiple answers, output any of them. In particular, if no ship can be placed on the field, you can output any cell

### Examples

43  
8.8  
8.8  
- - -  
- 888

output

3.2

10 4

output

[illegible][illegible]

Time Limit (in ms) -

2000

### Total Test Cases

3

Run

Fetch...

Browse...

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**Codeforces Round #476 (Div. 2)**  
[Thanks, Telegram!]

Finished

→ Virtual participation

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Start virtual com

→ Problem tags

implementation

No tag edit access

→ Contest materials

- Announcement
- Tutorial

time limit per test 1.5 seconds  
memory limit per test 256 megabytes  
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### Examples

4 3  
 2 2 2  
 2 2  
 - - -  
 - 2 2 2

output

3.2

10 4

output

22

[illegible]

Time Limit (in ms) -

2000

### Total Test Cases

3

Run









Fetch...

Browse...



Finished

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output
3 2

```
10 4
#...##...
# #
```

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

output
--------

61

[illegible]

2000

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3

Run

Fetch...

Browse...



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### Examples

43









**三、**

output

32

10 4



output

61

— 22 —



\_\_\_\_\_

[illegible]

3

Run

Fetch...

Browse...



Finished

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43



output
--------

10 4



...

.....

output
--------

61

• •

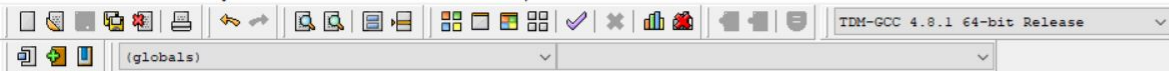
[illegible]

2000

### Total Test Cases

3

Run



Project Classes Debug

a.cpp

```
1 //for(auto a: x);
2 #include<iostream>
3 #include<bits/stdc++.h>
4 using namespace std;
5 #include<stdio.h>
6 #define fo(i,n) for(i=0;i<(n);++i)
7 #define LLI long long int
8 #define pb push_back
9 #define mp make_pair
10 #define X first
11 #define Y second
12 #define MAX 1000002
13 #define MOD 1000000007
14 |
15 LLI T,n,in,i,m,j,k,c,l;
16 LLI cnt[101][101];
17 vector <LLI> :: iterator it;
18
19 int main(void) {
20     ios_base::sync_with_stdio(false);
21     cin.tie(NULL);
22     cin>>n>>k;
23     char s[n+1][n+1];
24     bool t;
25     for(i=0;i<n;++i)
26     {
27         cin>>s[i];
```

Compiler Resources Compile Log Debug Find Results Close

Total errors: 0  
Total warnings: 0  
Size of output: 1.86515712738037 MiB

Abort Compilation

General: TDM-GCC 4.8.1 64-bit Release

Executing g++.exe...

g++.exe "C:\Users\Aryan\Desktop\Advance Track\sample soln\a.cpp" -o "C:\Users\Aryan\Desktop\Advance Track\sample soln\a.exe" -g3 -I"C:\Program Files (x86)\Dev-  
Compilation succeeded in 1.14 seconds

```
1 //for(auto a: x);
2 #include<iostream>
3 #include<bits/stdc++.h>
4 using namespace std;
5 #include<stdio.h>
6 #define fo(i,n) for(i=0;i<(n);++i)
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Fetch...

Browse...



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**Example:**

43



●●●

input	output
1	1
2	4
3	9
4	16
5	25
6	36
7	49
8	64
9	81
10	100

10

...

0.0000

...

output

61

1. 2.

[illegible]

Time Limit (in ms) -

2000

### Total Test Cases

3

Run

**What I liked About Project !!**

# What I liked About Project !!

- Making Web Scraper.
- I liked it very much.
- I also created Web Scraper to download My PHY103A assignments from course website.



# What I liked About Project !!

- Having My own software that I can use during debugging.
- No more need to retype test cases during debugging of Program when solving Questions.

**What Didn't I like About Project**

Fetch...

Browse...



**Codeforces Round #476 (Div. 2)**  
**[Thanks, Telegram!]**

Finished

Test Case	Input	Expected Output	Output	Result
1	4 3 #.# #.# .... .###	3 2		
2	10 4 #.#	6 1		

3

Run

# What Didn't I like About Project

- This error is Popping up because In back end Visual Studio uses old Internet Explorer.
- I tried avoiding using three different methods.
- But failed on all of them.

— — —

# What Didn't I like About Project

- During Run Time Error.
- Program gives TLE verdict.
- And if someone wants to differentiate between them.
- He has to look for this icon in notification panel.



**If you had more time.**

# If you had more time.

- I would have customised more.
- Allowed used to edit test cases from application itself.

— — —

# If you had more time.

- One suggestion which was given to me during mid term presentation –
- Add more websites.
- Every Website required writing Web Scraper from Scratch.



# If you had more time.

- Once issue with runtime error is resolved.
- I would like to add so that use can know type of runtime error.
- Doing this required learning signal processing at system level.

— — —

**Thank You.**