



# Monash Collegiate Programming Contest

Practice Round

24th, August, 2019

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## FQAs

Q: Why I passed all samples, but still get **Wrong Answer (WA)** ?

- There are multiple secret test cases, failing on any of them causes **Wrong Answer**, so you'll have to spot the bug by yourself.

Q: What is **Time Limit Exceeded (TLE)** ?

- Your program runs out of time limit; this error doesn't allow you to know if your program would reach the correct solution to the problem or not.

Q: What is **Memory Limit Exceeded (MLE)** ?

- Your program tried to use more memory than the judge allows.

Q: What is **Runtime Error (RE)**

- Your program failed during the execution (segmentation fault, floating point exception...). The exact cause is not reported to the user to avoid hacking.

Q: There are **Input file: standard input**, **Output file: standard output** in my problem statement, what do these mean? Do I need to create files?

- Reading from standard input (**stdin**) means reading data which you are typing on your keyboard, and outputting to standard output (**stdout**) means printing data to your console. So it's not necessary to create files.

Q: How to read and request clarifications?

The screenshot displays a programming competition interface. At the top is a leaderboard table with columns: RANK, TEAM, SCORE, and four problem status indicators (BOOLFIND, FLTCMP, HELLO). The first row shows rank 1 for team 'tourist' with a score of 0. Below the leaderboard are two panels: 'Submissions' (showing 'No submissions') and 'Clarifications'. The 'Clarifications' panel has a table with columns: time, from, to, subject, and text. It contains one entry: 13:33, Jury, All, General issue, Here is the clarification. Below this is a 'Clarification Requests' section showing 'No clarification request.' and a 'request clarification' button. Red annotations include an arrow pointing to the clarification table with the text 'Read clarification here' and an arrow pointing to the 'request clarification' button with the text 'Press button to request'.

RANK	TEAM	SCORE	BOOLFIND	FLTCMP	HELLO
1	tourist	0	0		

Read clarification here

Submissions					
No submissions					

Clarifications					
time	from	to	subject	text	
13:33	Jury	All	General issue	Here is the clarification	

Clarification Requests

No clarification request.

Press button to request

request clarification

## Tips

- Pay attention to **Time limit**, **Memory limit** constraints in your problem statement when you get **Time Limit Exceeded** or **Memory Limit Exceeded** verdict.
- C++ can nearly run  $10^8$  basic operations (e.g.  $+$ ,  $-$ ) in 1 second, Python can nearly run  $10^6$  basic operations in 1 second, and you can estimate your program running time based on these info and your complexity analysis to avoid **Time Limit Exceeded**.
- Instead of typing on keyboard, a more convenient way for local testing in command line is:

```
./myprogram < sample.in > myoutput  
diff myoutput sample.out
```

where  $<$  is redirect all contents of file `sample.in` to **standard input**, and  $>$  is redirect your **standard output** to the file `myoutput`, and `diff` is to check the difference between your output and the expected answer.

## Good Luck & Have Fun!

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