



ThoughtWorks QA Hiring Challenge

Jul 10, 2015, 06:00 PM IST - Jul 12, 2015, 11:00 PM IST

INSTRUCTIONS PROBLEMS SUBMISSIONS JUDGE

← Problems / Alarm Time App

Alarm Time App

Max. score: 100

This problem is no longer available for practice. Apology for any inconvenience!

PROBLEM EDITORIAL MY SUBMISSIONS

An application works as follows:

It asks user to enter the time in HH:MM:SS format to set a alarm for that time. Note that the application only accepts the time as specified by the format HH:MM:SS, where

- SS,representing the second, should be in range[00,59]
- MM,representing the minute, should be in range[0,59]
- HH,representing the hour,should be in range[0,23]

Any other kind of data would be considered invalid by the application and it will print "Invalid".

For eg: 12:15:90 is an invalid time, 12/15/20 is also an invalid time format since application accepts hour, minute and second to be separated by colon ':' .

05:11:24 and 05:00:00 are valid as well.

Your task is to test this application on several different test cases and print them all to standard output.

Your score will be judged on the basis of the checker algorithm.

If all your test cases take unique different path, then your score will be maximum. If two test cases take same path, they will be considered similar and will be counted as 1. For eg: 20:62:00 and 20:80:00, both will fall on the same restriction that Minute should be in the range [0,59].

Note: You can print maximum of **100** Test Cases.

Output format:

Print the total number of Test Cases - T you are going to print in the first line.

Following T lines each should contain a test data.

Sample Output:

```
1
dd:34:2
```

Score for above sample output is 4 as it covers only one case, i.e. Invalid Format and Size of string .

Sample Code :

```
#include<iostream>
using namespace std;
int main()
{
    cout<<"1"<<endl;
    cout<<"dd:34:2"<<endl;
    return 0;
}
```

Print the test cases to standard output (STDOUT) as shown in the above sample C++ code. If you're using any other language, use the respective STDOUT functions such as `printf()` in C, `System.out.println()` in Java etc.

Time Limit:	2.0 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB
Marking Scheme:	Score is assigned if any testcase passes.

?

CODE EDITOR

Enter your code or [Upload your code](#) as file.

Saved Python (python 2.7.6)

10
LIVE EVENTS

```
1 print(17)
2 print("00:00:00")
3 print("00:00:80")
4 print("00:80:00")
5 print("80:00:00")
6 print("01:01:01")
7 print("*1:*1:*1")
8 print("01/01/01")
9 print("00:31:31:01")
10 print("01,01,01")
11 print("")
12 print("-01:-01:-01")
13 print("0:1")
14 print("0")
15 print("A")
16 print("23:59:59")
17 print(":")
18
```

18:1 vscode

☒ Provide custom input

COMPILE & TEST

SUBMIT

Submission ID: 46837223 / 1 second ago

RESULT: Accepted				
Score	Time (sec)	Memory (KiB)	Language	
81.0	0.10121	64	Python	

Input	Result	Time (sec)	Memory (KiB)	Score
Input #1		0.101212	64	81

Your Rating:

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