Lab No. 5
Lab Date: 04/10/2016

Guidelines :

1. Read all questions carefully.
2. Please use *man* and *apropos* before calling a TA for help.

Submission Format :

1. Create a folder <rollno>_lab<lab_no>. All your work should be in this folderONLY
2. You have to generate a script file with the name <rollno>_ lab<lab no>.script
3. Create <Section_no>_<Question_no>.sh for all questions in section
4. Directory Structure :
    |d- <rollno>_lab<lab_no>
        |f- <Section_no>_<Question_no>.sh
        |f- <rollno>_lab<lab_no>.script
        |d/f- All files/directories created in this session
5. Zip the folder to <rollno>_lab<lab_no>.tar and upload it

Lab Questions

SECTION 1 Bash Scripting

Q 1. Create 2 files : 1a.sh, 1b.sh with the following description:

1a.sh - This file contains the following function definations

I. circle_area (a): return pi*a*a;
Ii. square_area (a): return a*a;
Iii. rectangle_area (l,b): return l*b;
Iv. R_triangle_area(h,b): return 1⁄2 *h*b;
V. A_triangle_area(a,b,c): return hero's formula;
Vi. trapezium_area (a,b,h) : return [(1/2)(a+b)]*h;

1b.sh This file inherits/sources 1a.sh and uses the defined functions to do the following task:
i. Take numerical values as command line input.
Ii .If # Arguments = 1; then, calculate circle and square area.
   if # Arguments = 2; then , calculate rectangle and R_Triangle area.
   if # Arguments = 3; then, calculate A_triangle and trapezium area.
   Else, print error;

Example Output:
$> 1b.sh 5 6
Circle Area: NOT POSSIBLE
Square Area: NOT POSSIBLE
Rectangle Area: 30
R_Triangle Area: 15
A_Triangle Area: NOT POSSIBLE
Trapezium Area: NOT POSSIBLE
PS: print errors accordingly! It carries marks.

Q 2.
Sunil has recently joined the SCE TAs team. As he is a fresher he was given the basic task of creating a file containing the list of all the students and assign the students as evenly as possible to all the 7 TAs for the purpose of evaluation. As Sunil is too lazy to do this work, he plans to write a Bash script to perform this task. You being the Scripting guru, decided to help him in writing the script. As you have decided to help him, write a Bash script to assign the students to the TAs for the evaluation. You can find the list of all the assignment submissions in SubmittedFiles.txt.
Note: For each instance of execution, the generated output should vary.

Sample Output:
```
  1.   201350839 - Prabhakar
  2.   201350914 - Sheshadri
  3.   201532656 - Viplav
  4.   201550848 - Akanksha
  5.   201560516 - Deeksha
  6.   201560522 - Rambabu
  7.   201560543 - Harika
----------------------ROUND: 1
  8.   201560557 - Prabhakar
  9.   201560558 - Sheshadri
 10.   201560562 - Viplav
 11.   201560573 - Akanksha
 12.   201560592 - Deeksha
 13.   201560597 - Rambabu
 14.   201560609 - Harika
----------------------ROUND: 2
 15.   201560617 - Prabhakar
 16.   201560619 - Sheshadri
----------------------ROUND: 3
```

Q3. These days, many boys use beautiful girls' photos as avatars in forums. So it is pretty hard to tell the gender of a user at the first glance. Recently, one of our OS TA went to a forum and had a nice chat with a beauty (he thought so). After that they talked very often and eventually our TA went nuts and started dreaming about her.

But yesterday, he came to see "her" in the real world and found out "she" is actually a guy! Our TA is very sad and he is too tired and afraid to love again now. So he came to our beloved 'Micro Baba' for advice.

Enlightened 'Micro Baba' told a way to recognize users genders by their user names. This is Micro Baba's method: if the number of distinct characters in one's user name is odd, then he is a male, otherwise she is a female. You are given the string that denotes the user name, please help our OS TA to write a script to determine the gender of this user by Micro Baba's method.

Input
Read input from 'chatNames.txt'

Output
If it is a female by our hero's method, output "CHAT WITH HER!" (without the quotes), otherwise, output "IGNORE HIM!" (without the quotes). Output should be save in 'answers.txt'

Examples

input
wjmzbmr

output
CHAT WITH HER!

input
xiaodao

output
IGNORE HIM!

input
sevenkplus

output
CHAT WITH HER!

Note
For the first example. There are 6 distinct characters in "wjmzbmr". These characters are: "w", "j", "m", "z", "b", "r". So wjmzbmr is a female and you should print "CHAT WITH HER!".