**Secret Number**

*Lastname\_secretNumber.cpp*

Write a program which makes the user guess what the secret number is.

**PROGRAM DESIGN**

Create a program that asks the user for the secret number’s value. The program gives the user 5 tries in trying to guess the number’s value. For each wrong value, the program should give hints and deduct the total number of stars a user is given at the end of the program’s execution. The secret number is 27. Save your program as *Lastname\_secretNumber.cpp*

**PROGRAM SKELETON**

#include <iostream>

#define SECRET\_NUM 27

using namespace std;

int main()

{

int try\_num;

int stars = 5;

...

return 0;

}

**INPUT**

The user can input upto 5 inputs/tries. Once the user successfully guesses the number, use *break* to exit the loop.

**OUTPUT**

Once the input is accepted, the program should be able to assess if the user got the correct guess for the secret number. Using a while or for loop, the program should be able to ask for a guess from the user upto 5 times/tries. For every wrong guess, the number of stars gets deducted, and the program gives a clue whether the guessed number is lower or higher than the secret number (refer to sample outputs), If the user runs out of tries, the program outputs “You lost!”. If the user successfully guesses the correct value – the message “GGWP, you guessed correctly!”,

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| **Sample Inputs** | **Sample Outputs** |
| 1  28  77  87  10 | Too low, guess higher. 4 stars remain.  Too high, guess lower. 3 stars remain.  Too high, guess lower. 2 stars remain.  Too high, guess lower. 1 star remains.  Too low, guess higher. No stars remain.  You lost! |
| 10  87  27 | Too low, guess higher. 4 stars remain.  Too high, guess lower. 3 stars remain.  GGWP, you guessed correctly! |
| 27 | GGWP, you guessed correctly! |
| 9  10  11  12  27 | Too low, guess higher. 4 stars remain.  Too low, guess higher. 3 stars remain.  Too low, guess higher. 2 stars remain.  Too low, guess higher. 1 star remains.  GGWP, you guessed correctly! |
| 99  100  101  102  103 | Too high, guess lower. 4 stars remain.  Too high, guess lower. 3 stars remain.  Too high, guess lower. 2 stars remain.  Too high, guess lower. 1 star remains.  Too high, guess lower. No stars remain.  You lost! |