

MATH 4332

Assignment# 3

Due : 09/15/2023, Friday, before 11:59pm

Term :Fall 2023

1. Ask the user to enter 10 test scores. Write a program to do the following:
 - (a) Print out the smallest and the second smallest scores.
 - (b) If any of the scores is greater than 100, then after all the scores have been entered, print a message warning the user that a value over 100 has been entered.
 - (c) Drop the two lowest scores and print out the average of the rest of them.
2. Write a program that asks the user to guess a random number between 1 and 10. If they guess right, they get 10 points added to their score, and they lose 1 point for an incorrect guess. Give the user five numbers to guess and print their score after all the guessing is done.
3. Write a program to count how many integers from 1 to 1000 are not perfect cubes and print the first 10 non perfect cubes integers.
4. Write a program to compute the sum:

$$1 + 3 + 5 + \cdots + 1997 + 1999.$$

5. Write a program that asks the user to enter a value n , and then computes

$$\left(1 + \frac{1}{2} + \frac{1}{3} + \cdots + \frac{1}{n}\right) - \log(n)$$

The \ln function is \log in the math module.

6. Write a program to compute the sum

$$1 - 2 + 3 - 4 + \cdots + 1999 - 2000.$$