8593 - LAB 09

Instructions

1. Access the auto-grader at https://c200.luddy.indiana.edu

2. Please write the code for the problems in python language

3. The code should be readable with variables named meaningfully

4. Plagiarism is unacceptable and we have ways to find it, so do not do it

5. Don't change the function signature (name of the function and number and types of arguments) provided in this file.

6. Once you pass all the tests on the auto grader, show your work to the teaching assistant

Problem

Question

Its a very hot day and Leo wants to eat something cold. He goes to the ice cream store, which has n bars and wants to buy as many of the bars as he can. We have an array costs where costs[i] is the price of the ith ice cream bar. The integer total indicates how much money Leo has. Write a function buyIceCream(costs, total) that returns the maximum number of ice creams that Leo can buy.

NOTE: This question must be solved using sorting

Test cases

1. Input: costs = [1,3,2,4,1], total = 7
   Output: 4
   Explanation: Leo can buy ice cream bars at indices 0,1,2,4
   for a total price of 1 + 3 + 2 + 1 = 7.

2. Input: costs = [10,6,8,7,7,8], total = 5
   Output: 0
   Explanation: Leo cannot afford any of the ice cream bars.

Function signature

```
def buyIceCream(costs, total):
    *** your logic ***
    return max_ice_creams
```