

Write an algorithm that computes the Body Mass Index (BMI) given the heights and weights of students. The algorithm should first read the total number of students and then read the height and weight of each student to calculate and print the BMI category. A student is considered Underweight if the BMI is less than or equal to 18.5; Normal Weight if between 18.5 and 24.9; Overweight if between 25 and 29.9; and Obese if greater than or equal to 30.

Assuming the number of male students at Birzeit University in the year 2021 is 4532 and the number of female students in the same year is 6240. If the number of male students grows at an annual constant rate of 4.2 percent while the number of female students grows at an annual constant rate of 3.1 percent, write an algorithm that will decide and print the first year when the number of male students at Birzeit University will exceed the number of female students.

Write an Algorithm that receive a number which consists of number of digits such as (56314), the algorithm should find the following

- a. The reverse of the entered number, Example: Reverse of 56314 = 41365
 - b. The sum of even digits for entered number, Example Sum (56314) =10
 - c. The highest digit in entered number, Example Max-digit in (56314)=6
 - d. The Min digits in entered number, Example Min-digit in 56314 = 1
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Write an algorithm (pseudocode) that calculates the average temperature for a number of countries, each with a number of cities, over a number of days. The number of countries is unknown, the number of cities is unknown, and can be different for each country, and the number of days is unknown, and can be different for each city.

Your algorithm is expected to read a country code/name from the user, until -1 is entered. For each country, it is expected to read a city code/name, until -1 is entered. And for each city, it is expected to read temperatures until -1 is entered.

Your algorithm must calculate the average temperature, which equals the summation of all temperature divided by the number of days.