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- Q1. I : Enter Temperature celcius  
P : Convert celcius to fahrenheit  
O : Display Fahrenheit

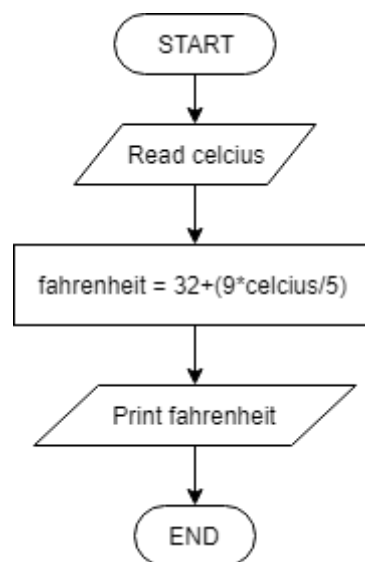
1.0 Start

2.0 Read celcius

3.0 Fahrenheit,  $\text{fahrenheit} = 32 + (9 * \text{celcius} / 5)$

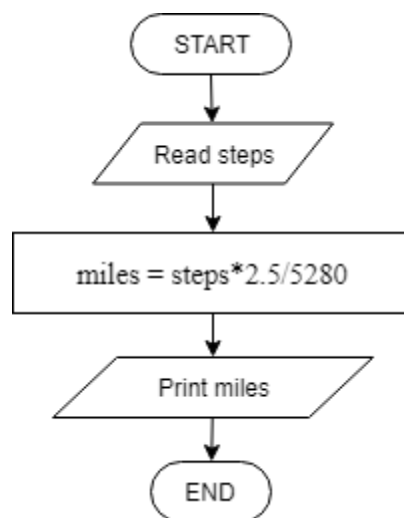
4.0 Print fahreheit

5.0 End



Q2. I : Read steps  
P : Calculate miles  
O : Display miles

1.0 Start  
2.0 Read steps  
3.0  $\text{miles} = \text{steps} * 2.5 / 5280$   
4.0 Print miles  
5.0 End



Q3. I : Read num1 and num2

P : - Calculate sum and difference

- determine whether sum is bigger than difference or difference is bigger than sum

O : print sum or difference based on whether sum or difference is bigger

1.0 Start

2.0 Read num1, num2

3.0 Calculate sum, difference

4.0 If sum>differ

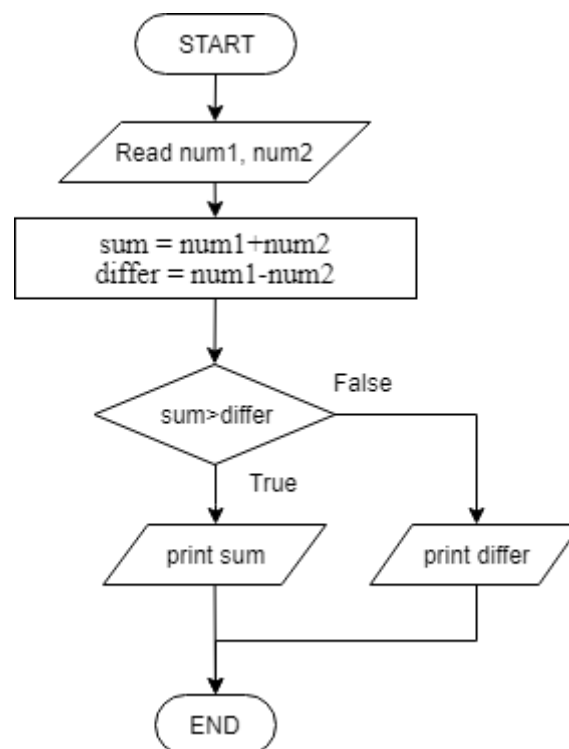
4.1 Print sum

5.0 Else

5.1 Print difference

6.0 End if

7.0 End



Q4. I : Read participant, weight, height  
P : Repeat and calculate BMI based on participant  
O ; Display BMI

1.0 Start

2.0 Read Participant

3.0 Set c=0

4.0 While c<participant

4.1 Read height, weight

4.2  $BMI = \text{weight} / (\text{height} * \text{height})$

4.3 If BMI < 18.5

4.31 Print "Underweight"

4.4 Else if BMI <= 25

4.41 Print "Normal"

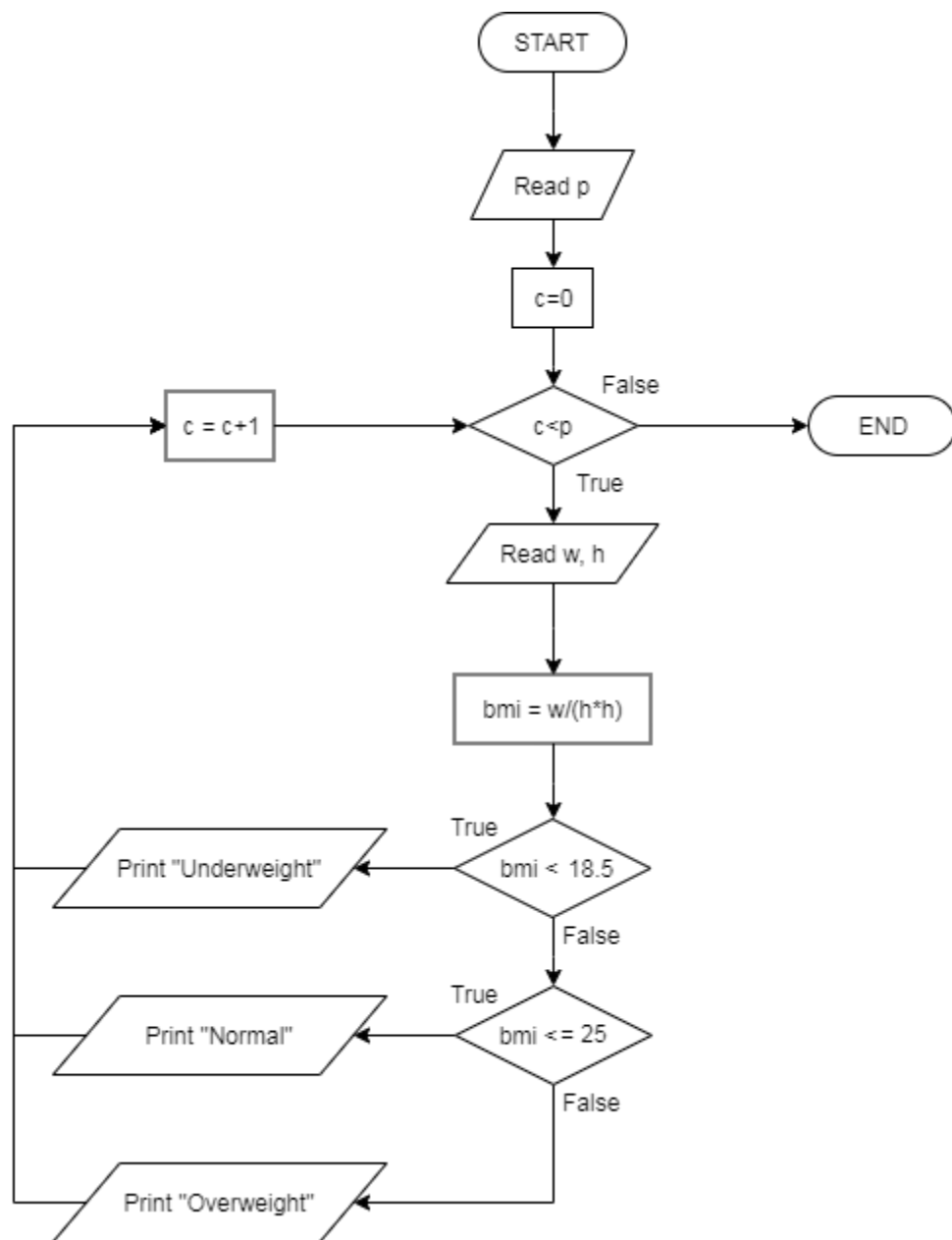
4.5 Else

4.51 Print "Overweight"

4.6 End if

5.0 Endwhile

6.0 End



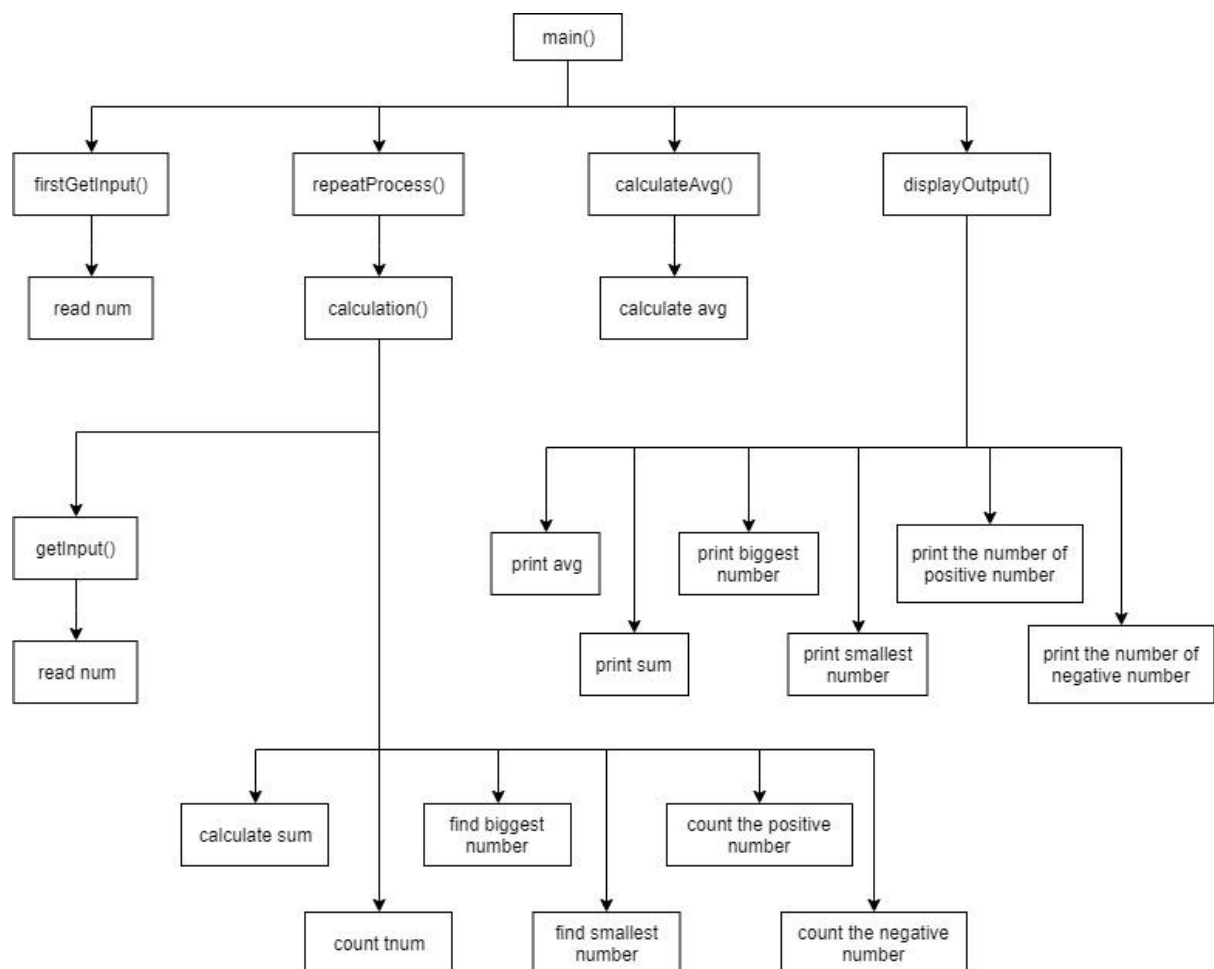
Q5. I : Read number

P : - Count positive and negative number

- Calculate total and average

- Determine smallest and biggest number

O : Print the amount of positive and negative numbers, total, average, the smallest number and the biggest number



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1.00  Start
2.00  call firstGetInput()
2.10      read num
2.20      return num
3.00  call repeatProcess()
3.10      call calculation
3.11          set sum=0, tnum=0, small=num, big=num, posNum=0, negNum=0
3.12          while num != 0
3.121              sum = sum+num
3.122              tnum = tnum+1
3.123              if num>0
3.1231                  posNum = posNum+1
3.124              else
3.1241                  negNum = negNum+1
3.125              end if
3.126              if num > big
3.1261                  big = num
3.127              end if
3.128              if num < small
3.1281                  small = num
3.129              end if
3.1210              call getInput()
3.12101                  read num
3.12102                  return num
3.13          end while
3.14          return sum, tnum, negNum, posNum, big, small
3.2      return sum, tnum, negNum, posNum, big, small
4.0  call calculateAvg()
4.1      avg = sum/tnum
4.2      return avg
5.0  call displayOutput()
5.1      print sum, avg, negNum, posNum, big, small
6.0  End

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