

Information Technology 2020

Array - ageArr[]

ageArr[0]	-	24
ageArr[1]	-	36
ageArr[2]	-	18
ageArr[3]	-	21
ageArr[4]	-	17

Algorithm		Trace Table						
1	size $\leftarrow$ 4							
2	temp $\leftarrow$ 0							
3	runningAvg $\leftarrow$ 0							
4	count $\leftarrow$ 0							
5	for k $\leftarrow$ 0 to size-1							
	begin							
6	temp $\leftarrow$ temp + ageArr[k]							
7	count ++							
8	runningAvg $\leftarrow$ runningAvg + (temp / count)							
9	if (runningAvg > 60)							
10	display "Error"							
	end if							
	end loop							
11	display (temp / count)							

line	size	temp	runningAvg	k	count	runningAvg > 60?	DISPLAY
1	4						
2		0					
3			0				
4					0		
5				0			
6		24					
7					1		
8			24				
9						F	
5				1			
6		60					
7					2		
8			54				
9						F	
5				2			
6		78					
7					3		
8			80				
9						T	
10							Error
5				3			
6		99					
7					4		
8			104				
9						T	
10							Error
11							24