

Q1.A) PSEUDOCODE

BEGIN

READ number between 0 to 10

IF number>0 and number<10 THEN

 DISPLAY blue

ELSE IF number >10 and number<20 THEN

 DISPLAY red

ELSE IF number >20 and number<30 THEN

 DISPLAY green

ELSE

 DISPLAY it is not a correct color option

ENDIF

END

Q2.A)BEGIN

READ NUM

INITIALIZE i=1

WHILE i<=100

 IF i is divisible by 5 and remainder is 0

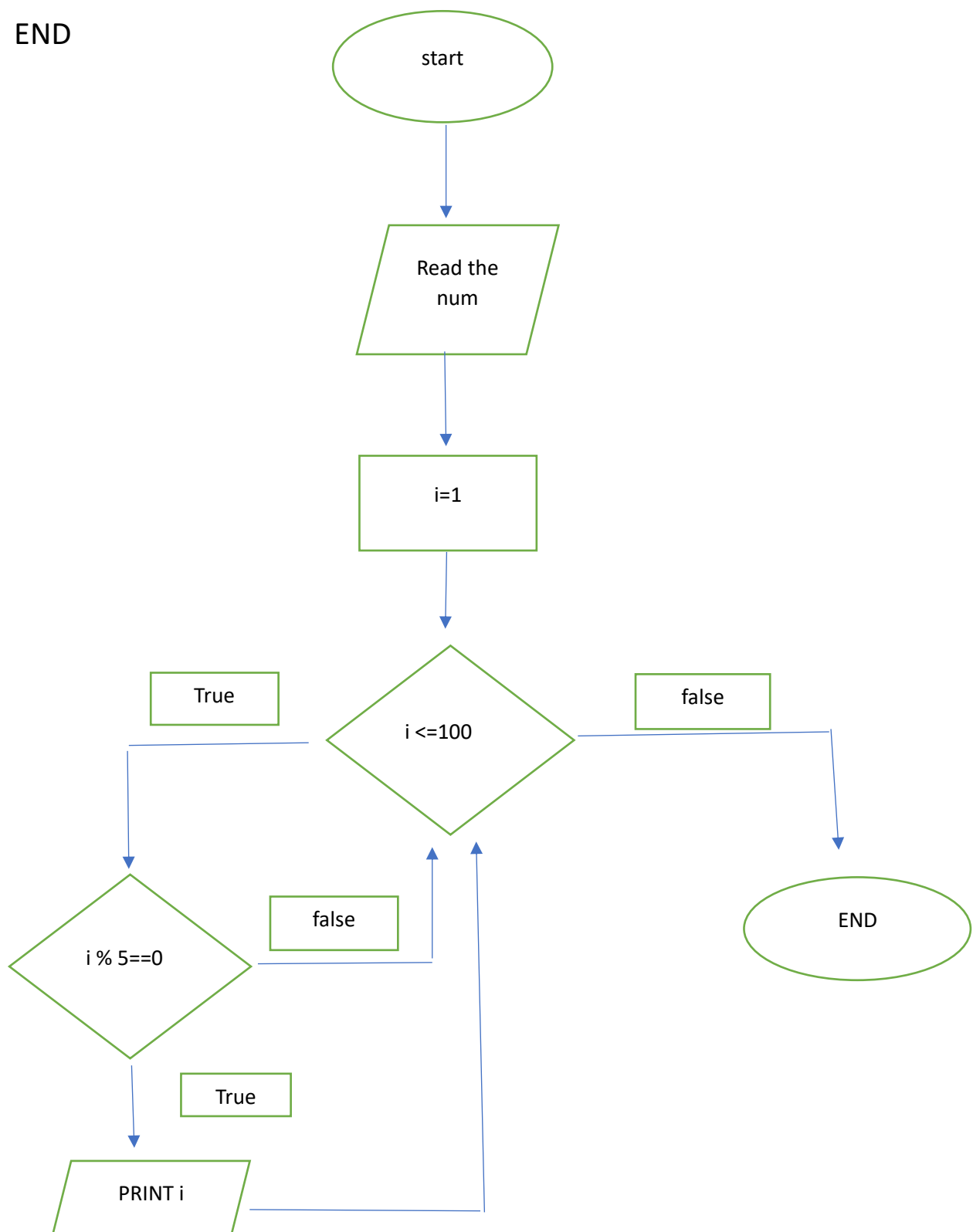
 DISPLAY i

 ENDIF

 i=i+1

END WHILE

END



Q3.A) BEGIN

READ num1,num2,num3,num4,num5

Average=(sum of inputs from user)/(no of inputs from user)

DISPLAY Average

IF num1>num2 and num1>num3 and num1>num4 and num1>num5

DISPLAY num1 is largest number

ELSE IF num2>num1 and num2>num3 and num2>num4 and num2>num5

DISPLAY num2 is largest number

ELSE IF num3>num1 and num3>num2 and num3>num4 and num3>num5

DISPLAY num3 is largest number

ELSE IF num4>num1 and num4>num2 and num4>num3 and num4>num5

DISPLAY num4 is largest number

ELSE

DISPLAY num5 is largest number

ENDIF

IF num1<num2 and num1<num3 and num1<num4 and num1<num5

DISPLAY num1 is smallest number

ELSE IF num2<num1 and num2<num3 and num2<num4 and num2<num5

DISPLAY num2 is smallest number

ELSE IF num3<num1 and num3<num2 and num3<num4 and num3<num5

DISPLAY num3 is smallest number

ELSE IF num4<num1 and num4<num2 and num4<num3 and num4<num5

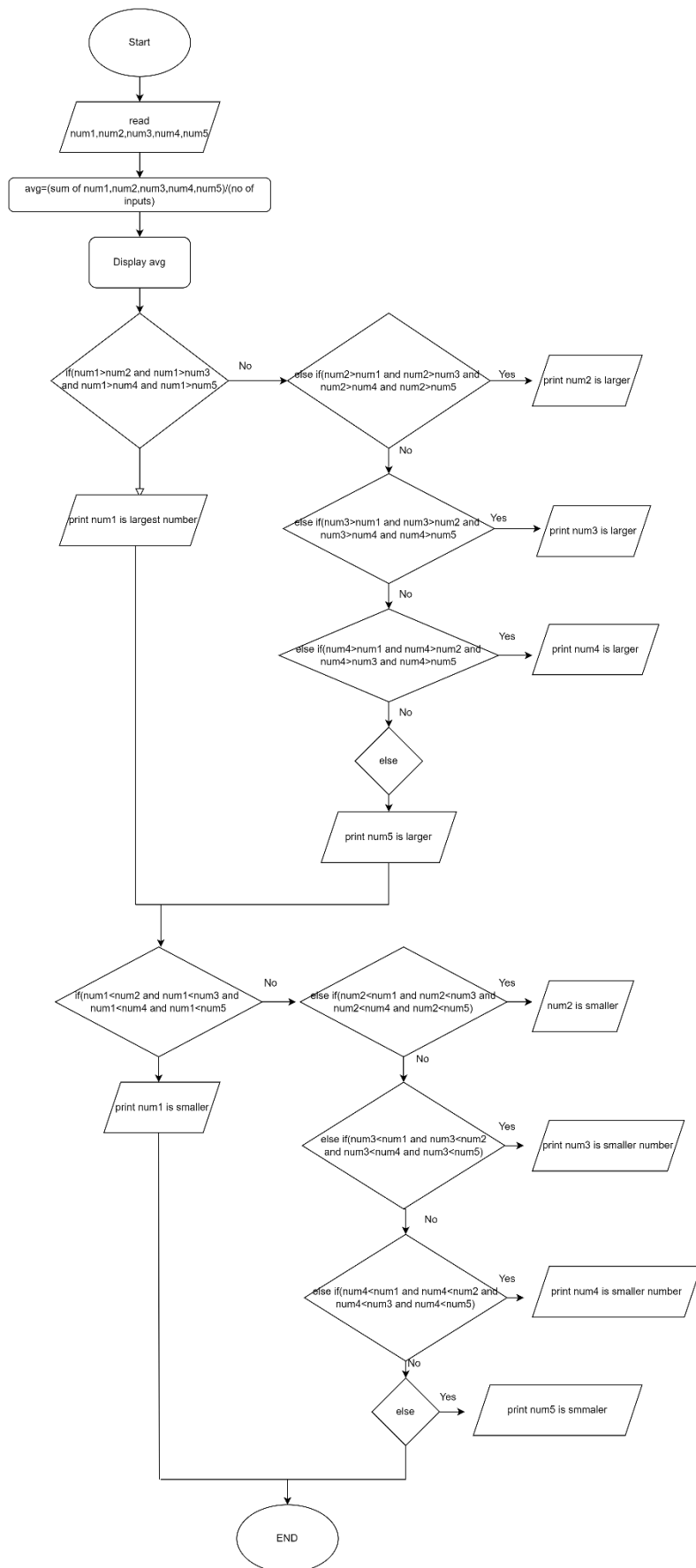
DISPLAY num4 is smallest number

ELSE

DISPLAY num5 is smallest number

ENDIF

END



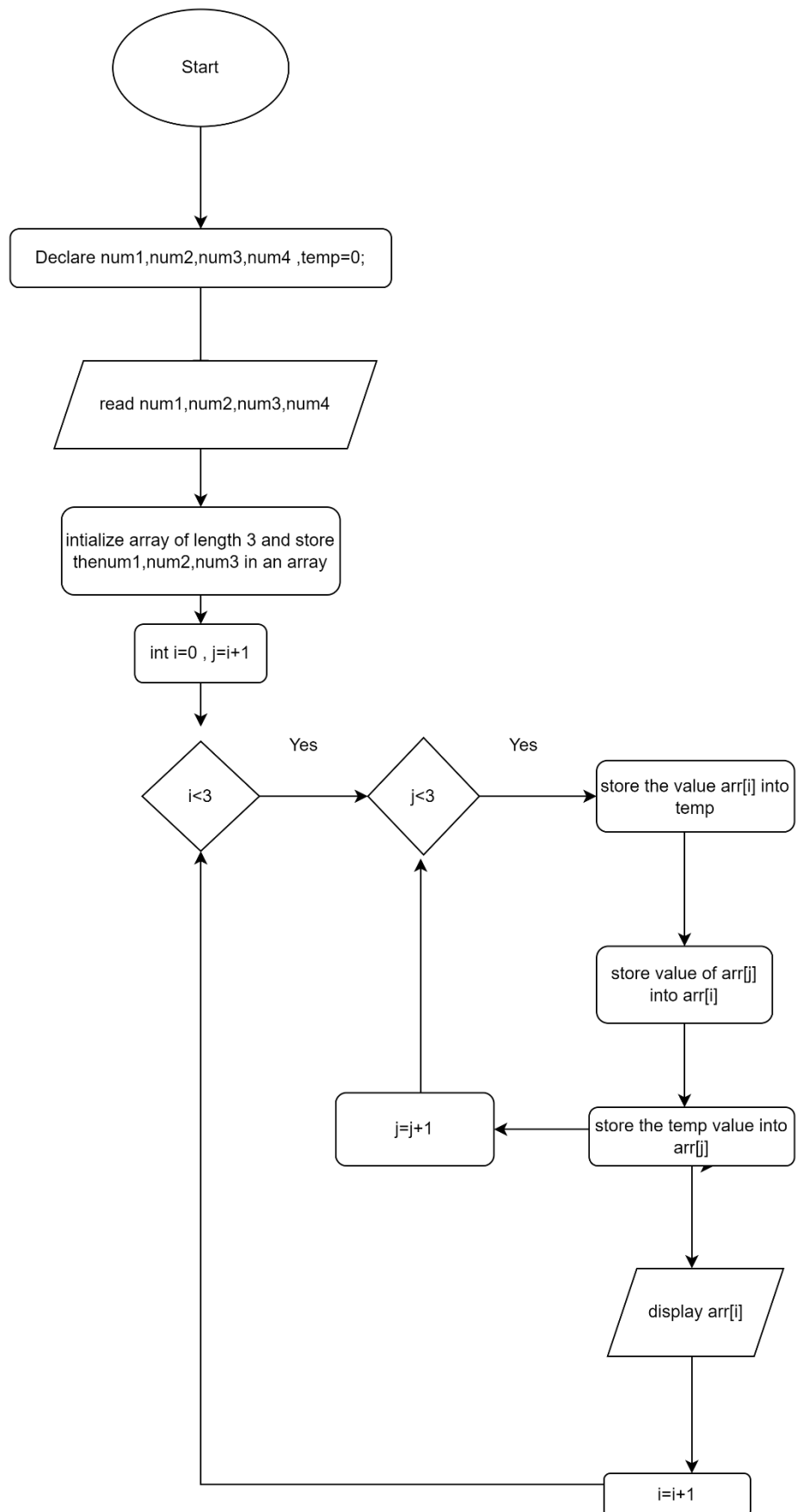
Q4.A) BEGIN

```
Declare and initialize num1,num2,num3,temp=0
Initialize empty array of length(3)
Read values of num1,num2,num3
Initialize the value of num1 to 0th index of array
Initialize the value of num2 to 1st index of array
Initialize the value of num3 to 2nd index of array
For i from 0 to 3 increment by 1
    For j from 0 to 3 increment by 1
        Store the value of array[i] into temp
        Store the value of array[j] into array[i]
        Store the value of temp into array[j]
    EndFor
    Display the value of array[i]
EndFor
END
```

Code :

```
#include <stdio.h>

int main() {
    int num1,num2,num3;
    int temp=0;
    int arr[3];
    scanf("%d",&num1);
    scanf("%d",&num2);
    scanf("%d",&num3);
    arr[0]=num1;
    arr[1]=num2;
    arr[2]=num3;
    for(int i=0;i<3;i++)
    {
        for(int j=i+1;j<3;j++)
        {
            temp=arr[i];
            arr[i]=arr[j];
            arr[j]=temp;
        }
        printf("%d",arr[i]);
    }
    return 0;
}
```



Q5 A) ===== CODE =====

```
#include <stdio.h>
#include <stdbool.h>

int main() {

int num,sum=0;
while(true)
{
    scanf("%d",&num);
    if(num>0)
    {
        sum=sum+num;
        printf("%d\n",sum);
    }
    else
    {
        printf("%d\n",sum);
        break;
    }
}
return 0;
}
```

```
BEGIN
Declare num
Intialize sum=0
WHILE true
    READ num
    IF num > 0
        Sum=sum+num
        DISPLAY sum
    ELSE
        DISPLAY sum
        BREAK
    ENDIF
ENDWHILE
END
```

