**Write a C Program to check whether the given sequence of elements in the array are in A.P. or not.**

/\*

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#include<stdio.h>

void checkArray(int [],int); //Function declaration

int main()

{

int i,len;

printf("\nEnter the range of array : ");

scanf("%d",&len);

int arr[len];

printf("\nEnter elements in the array : ");

for(i=0;i<len;i++)

scanf("%d",&arr[i]); //Taking elements from user in the array

checkArray(arr,len); //Function calling

return 0;

}

void checkArray(int a[],int len)

{

int i,difference,flag=0;

difference=a[1]-a[0];

/\* Checking the difference between the consecutive elements in the array \*/

for(i=0;i<len-1;i++)

{

if((a[i+1]-a[i])==difference)

flag=0;

else

flag=1;

}

if(flag==1)

printf("\nSequence of the elements in the array are not in AP");

else

printf("\nSequence of the elements in the array are in AP");

}

**OUTPUT :**



