#include<stdio.h> /\* header file for using basic C functions for example printf and scanf.\*/  
  
#include<pthread.h> /\*header file for using thread operations.\*/  
  
int arr[30],n,i; /\*declaring an array of size 30 to store values entered by user.\*/  
  
  
void \*test() /\*function to calculate average.\*/  
  
{  
  
int sum=0;  
  
float average;  
  
printf("How many numbers do you want to enter? : ");  
  
scanf("%d",&n);  
  
for(i=0;i<n;i++)  
  
{  
  
scanf("%d",&arr[i]); /\* values entered by user is stored here\*/  
  
}  
  
for(i=0;i<n;i++)  
  
{  
  
sum=sum+arr[i]; /\* sum is calculated to find the average\*/  
  
}  
  
average=sum/n; /\* average calculated\*/  
  
printf("The average value is : %f",average);  
  
}  
  
void \*test1() /\* function to calculate minimum. \*/  
  
{  
  
  
  
int temp=arr[0]; /\* considering first element of array entered by user to be minimum\*/  
  
for(int i=1;i<n;i++)  
  
{  
  
if(temp>arr[i]) /\* if first element is not minimum like we assumed then we store the next smaller value in temp\*/  
  
{  
  
temp=arr[i];  
  
}  
  
}  
  
printf("\nThe Minimum value is : %d",temp);  
  
  
}  
  
void \*test2() /\* function to calculate maximum.\*/  
  
{  
  
  
int temp=arr[0];/\* considering first element of array entered by user to be maximum\*/  
  
for(int i=1;i<n;i++)  
  
{  
  
if(temp<arr[i]) /\* if first element is not maximum like we assumed then we store the next greater value in temp\*/  
  
{  
  
temp=arr[i];  
  
}  
  
}  
  
printf("\nThe Maximum value is :%d",temp);  
  
}  
  
int main()  
  
{  
  
int n,i;  
/\* we are creating three thread id's here\*/  
  
pthread\_t t1;  
  
pthread\_t t2;  
  
pthread\_t t3;  
  
n=pthread\_create(&t1,NULL,&test,NULL);  
  
pthread\_join(t1,NULL);  
  
  
n=pthread\_create(&t2,NULL,&test1,NULL);  
  
        pthread\_join(t2,NULL);  
  
  
n=pthread\_create(&t3,NULL,&test2,NULL);  
  
        pthread\_join(t3,NULL);  
  
  
  
}