

import java.util.Scanner;
public class w10task1
{
public static void main(String []args)
{
Scanner sc=new Scanner(System.in);
int []num=new int[5];
for(int p=0;p<=num.length-1;p++)
{
System.out.println("Enter a number:");
num[p]=sc.nextInt();
}
int max=0;
max=num[0];
for(int i=1;i<=num.length-1;i++)
{
if (num[i]>max)
{max=num[i];}
}
System.out.println("Largest mark is "+max);
}
}

import java.util.Scanner;
public class w10task2
{
public static void main(String []args)
{
Scanner sc=new Scanner(System.in);
int []num=new int[5];
for(int p=0;p<=num.length-1;p++)
{
System.out.println("Enter a number:");
num[p]=sc.nextInt();
}
int max=0;
int i;
int m=num[0];
for(i=1;i<=num.length-1;i++)
{
if (num[i]>m)
{
max=i;
m=num[i];
}
}
System.out.println("The largest number "+ m + " was found at "+ max);
}
}

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import java.util.Scanner;
public class w10task3
{
    public static void main(String []args )
    {
        Scanner sc=new Scanner(System.in);
        int []num=new int[5];

        for(int p=0;p<=num.length-1;p++)
        {
            System.out.println("Enter a number:");
            num[p]=sc.nextInt();
        }
        int i;
        int j;
        int max=num[0];
        int min=num[0];
        int minPosition=0;
        int maxPosition=0;

        for(i=1;i<=num.length-1;i++)
        {
            if (num[i]>max)
            {
                max=num[i];
                maxPosition=i;
            }
        }
        for(j=1;j<=num.length-1;j++)
        {
            if (num[j]<min)
            {
                min=num[j];
                minPosition=j;
            }
        }
        System.out.println("The smallest number "+ min + " was found at "+ minPosition);

        System.out.println("The largest number "+ max + " was found at "+ maxPosition);
    }
}

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import java.util.Scanner;
public class w10task4
{
public static void main(String []args)
{
Scanner sc=new Scanner(System.in);
int []num=new int[5];
for(int p=0;p<=num.length-1;p++)
{
System.out.println("Enter a number:");
num[p]=sc.nextInt();
}
for(int k=0;k<num.length;k++)
{
int smallest=k;
int m;
for(m=num.length-1;m>=k+1;m--)
{
if (num[m]<num[smallest])
{smallest=m;}
}
int backup=num[k];
num[k]= num[smallest];
num[smallest]=backup;
}
for(int j=0;j<=num.length-1;j++)
System.out.print(num[j]+" ");
}
}

import java.util.Scanner;
public class w10task5
{
public static void main(String []args)
{
Scanner sc=new Scanner(System.in);
int []num=new int[5];
for(int p=0;p<=num.length-1;p++)
{
System.out.println("Enter a number:");
num[p]=sc.nextInt();
}
for(int k=0;k<num.length;k++)
{
int largest=k;
int m;
for(m=k+1;m<=num.length-1;m++)
{
if (num[m]>num[largest])
{largest=m;}
}
int backup=num[k];
num[k]= num[largest];
num[largest]=backup;
}
for(int j=0;j<=num.length-1;j++)
System.out.print(num[j]+" ");
}
}

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import java.util.Scanner;
public class w10task6
{
    public static void main(String []args )
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter a number:");
        int n=sc.nextInt();
        int []num=new int[n];
        for(int p=0;p<=num.length-1;p++)
        {
            System.out.println("Enter a number:");
            num[p]=sc.nextInt();
        }
        for(int k=0;k<num.length;k++)
        {
            int largest=k;
            int m;
            for( m=k+1;m<=num.length-1;m++)
            {
                if (num[m]>num[largest])
                {largest=m;}
            }
            int backup=num[k];
            num[k]= num[largest];
            num[largest]=backup;
        }

        int g;
        int h;
        if(n%2!=0)
        {
            g=(n-1)/2;
            System.out.println(num[g]);
        }
        else
        {
            g=(n/2)-1;
            h=(n/2);
            float b=(num[g]+num[h])/2;
            System.out.println(b);
        }
    }
}

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import java.util.Scanner;
public class w10task7
{
public static void main(String []args)
{
Scanner sc=new Scanner(System.in);
int []num=new int[10];
for(int p=0;p<=num.length-1;p++)
{
System.out.println("Enter a number:");
num[p]=sc.nextInt();
}
for(int i=0;i<=num.length-1;i+=2)
{
System.out.print(num[i]+" ");
}
for(int i=1;i<=num.length-1;i+=2)
{
System.out.print(num[i]+" ");
}
}
}

import java.util.Scanner;
public class w10task8
{
public static void main(String []args)
{
Scanner sc=new Scanner(System.in);
String []stringArray={"zero","one","two","three","four","five", "six","seven","eight","nine"};
System.out.println("Enter a number between 0 to 9:");
int n=sc.nextInt();
System.out.println(stringArray[n]);
}
}

import java.util.Scanner;
public class w10task9
{
public static void main(String []args)
{
Scanner sc=new Scanner(System.in);
int []array=new int[15];
int []valueCounterArray=new int[10];
for(int p=0;p<=array.length-1;p++)
{
System.out.println("Enter a number:");
int num=sc.nextInt();
valueCounterArray[num]= valueCounterArray[num]+1;
}
for(int p=0;p<=valueCounterArray.length-1;p++)
{
System.out.println(p +" was given "+valueCounterArray[p]+" time(s)");
}
}
}