

1. Find second highest values in array without using predefined functions

package JAVA;

public class scndlarno

{

public static void main(String[] args)

{

int arr[] = {2,1,3,4,5,6,7,89,3,4};

int l = arr.length;

int temp;;

for(int i=0;i<l;i++)

{

for(int j=1; j < (l-i); j++)

{

if(arr[j-1]>arr[j])

{

temp = arr[j-1];

arr[j-1] = arr[j];

arr[j] = temp;

}

}

}

int sclar=arr[l-2];

System.out.println("The second largest number is:" + sclar);

}

}

2. Find product of given 2 A,B matrices 2 X 2, Product matrix C. Print C matrix elements

```
package JAVA;
```

```
public class matrix
```

```
{
```

```
    public static void main(String[] args)
```

```
    {
```

```
        int i,j,k;
```

```
        int A[][] = {{2,3},{1,2}};
```

```
        int B[][] = {{2,4},{2,1}};
```

```
        int[][] C = new int[2][2];
```

```
        for(i=0;i<2;i++)
```

```
        {
```

```
            for(j=0;j<2;j++)
```

```
            {
```

```
                C[i][j] = 0;
```

```
                for(k=0;k<2;k++)
```

```
                    C[i][j] =C[i][j]+ (A[i][k]*B[k][j]);
```

```
                System.out.print(C[i][j] + " ");
```

```
            }
```

```
            System.out.println("");
```

```
        }
```

```
    }
```

```
}
```

3. Find repeated element with high frequency an array , print it

package JAVA;

public class rephighfre

```
{  
  
    public static void main(String[] args)  
    {  
        int i =0,j=0,k=0;  
        int count=0;  
        int res=0;  
        int max=0;  
  
        int arr[] = {3,4,5,2,3,4,6,7,8,5,3,6,7,8,3};  
        int l = arr.length;  
  
        for(i=0;i<l;i++)  
        {  
            for(j=0;j<l;j++)  
            {  
                if(arr[j]==arr[i])  
                {  
                    count++;  
                }  
            }  
            if (count > max)  
            {  
                max = count;  
                res = arr[i];  
            }  
        }  
        System.out.print(res);  
    }  
}
```