Question1).

import java.util.\*;

import java.io.\*;

public class SortArray {

public static void merging(int []arr,int p,int q,int r)//using merging concept

{

int a=q-p + 1;

int b=(r-q);

int []left=new int[a];

int []right=new int[b];

for(int i=0;i<a;++i){

left[i]=arr[p+i];

}

for(int i=0;i<b;++i){

right[i]=arr[q +1+i];

}

//merging left and right arrays

int x=0,y=0;

int k = p;

while (x < a && y < b)

{

if (left[x] <= right[y])

{

arr[k] = left[x];

x++;

}

else

{

arr[k] = right[y];

y++;

}

k++;

}

// Copy elements of left[]

while (x < a)

{

arr[k] = left[x];

x++;

k++;

}

// Copy remaining elements of right[]

while (y < b)

{

arr[k] = right[y];

y++;

k++;

}

}

public static void sort\_arr(int []arr,int i\_index,int l\_index )

{

if(i\_index < l\_index){

int k=0;

k=(i\_index + l\_index)/2;

sort\_arr(arr,i\_index,k);

sort\_arr(arr,k+1,l\_index);

//merging

merging(arr,i\_index,k,l\_index);

}

}

public static void main(String args[])throws Exception {

BufferedReader br=new BufferedReader(new InputStreamReader(System.in));

/\* int []arr=new int[12];

for(int i=0;i<arr.length;i++){

arr[i]=Integer.parseInt(br.readLine());

}\*/

int arr[]={30,29,28,27,26,25,24,23,22,21,20,19};

sort\_arr(arr,0,(arr.length-1));

System.out.println();

for(int i=0;i<arr.length;i++)

{

System.out.print(arr[i]+" ");

}

}

}

Question2.)

import java.util.\*;

import java.io.\*;

public class StringReverse {

public static void main(String[] args)throws Exception{

BufferedReader br=new BufferedReader(new InputStreamReader(System.in));

StringBuilder sb=new StringBuilder(br.readLine());

for(int i=0;i<sb.length();i++)

{

char c=sb.charAt(i);

if(Character.isUpperCase(c)){

sb.setCharAt(i,Character.toLowerCase(c));

}

else{sb.setCharAt(i,Character.toUpperCase(c));

}

}

StringBuffer sf=new StringBuffer(sb);

sf.reverse();

System.out.println(sf.toString());

br.close();

}

}