

Answer 1

```
import java.util.*;

class Solution {

    public int numJewelsInStones(String jewels, String stones) {

        int result = 0;

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

            if (jewels.contains(String.valueOf(stones.charAt(i)))) {

                result++;

            }

        }

        return result;

    }

}
```

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

{

    Scanner sc=new Scanner(System.in);

    String s,j;

    int a=0;

    System.out.println("Stones =");

    s=sc.nextLine();

    System.out.println("Jewels =");

    j=sc.nextLine();

    Solution xx = new Solution();

    if((j.length())>= 1 && (s.length())<= 50 )
```

```

    {
        a=xx.numJewelsInStones(j,s);

        System.out.println(a);
    }
else
    System.out.println("enter value in range");
}
}

```

Answer 2

```

import java.util.*;

class Solution {

    public String mergeAlternately(String word1, String word2) {

        StringBuilder sb = new StringBuilder();

        int len1 = word1.length();

        int len2 = word2.length();

        for (int i = 0; i < Math.max(len1, len2) ; i++) {

            if (i < len1) {

                sb.append(word1.charAt(i));

            }

            if (i < len2) {

                sb.append(word2.charAt(i));

            }

        }

    }

}

```

```

        }

    }

    return sb.toString();
}

public static void main(String args[])
{
    Scanner sc=new Scanner(System.in);

    String i,j,a="";

    System.out.println("ENTER 1ST WORD");
    i=sc.nextLine();

    System.out.println("ENTER 2ND WORD");
    j=sc.nextLine();

    Solution xx = new Solution();

    a=xx.mergeAlternately(i,j);

    System.out.println(a);
}
}

```

Answer 3

```

import java.util.*;

class Solution {

    public int minSteps(String s, String t) {

        int[] arr = new int[26];

        int l = s.length(), sum = 0;
    }
}

```

```

        for(int i = 0; i < l; i++){
            ++arr[s.charAt(i) - 'a'];
            --arr[t.charAt(i) - 'a'];
        }

        for(int i = 0; i < 26; i++) sum += Math.abs(arr[i]);

        return sum/2;
    }

    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);

        String i,j;

        int x=0;

        System.out.println("ENTER 1ST STRING");

        i=sc.nextLine();

        System.out.println("ENTER 2ND STRING");

        j=sc.nextLine();

        Solution xx = new Solution();

        x=xx.minSteps(i,j);

        System.out.println(x);
    }
}

```

Answer 4

```
import java.util.*;
```

```

class Solution {

public List<Integer> spiralOrder(int[][] matrix) {

    int m = matrix.length;

    int n = matrix[0].length;

    int sz = m * n;

    List<Integer> res = new ArrayList<>();

    int r = 0, c = 0, R = m-1, C = n-1;

    int i = r, j = c;

    while (res.size() < sz) { // main loop

        while (j <= C && matrix[i][j] != 200) { // check visited and traverse right

            res.add(matrix[i][j]);

            matrix[i][j] = 200; // mark visited

            j++;

        }

        // adjust i & j and remove row already traversed during right traversal

        j--;

        i++;

        r++;

        while (i <= R && matrix[i][j] != 200) { // check visited and traverse down

            res.add(matrix[i][j]);

            matrix[i][j] = 200;

            i++;

        }

        // adjust i & j and remove column already traversed during down traversal

        i--;

```

```

j--;
C--;
while (j >= c && matrix[i][j] != 200) { // check visited and traverse left
    res.add(matrix[i][j]);
    matrix[i][j] = 200;
    j--;
}

// adjust i & j and remove last column already traversed during left traversal

j++;
i--;
c++;
while (i >= r && matrix[i][j] != 200) { // check visited and traverse up
    res.add(matrix[i][j]);
    matrix[i][j] = 200;
    i--;
}

// adjust i & j and remove last row already traversed during up traversal

i++;
j++;
R--;
}
return res;
}
}

```

Answer 5

```
import java.util.*;

class Solution {

    public int[] sortArrayByParity(int[] nums) {

        int c=0;

        for(int j=0;j<nums.length;j++){

            if(nums[j]%2==0){

                int temp=nums[j];

                nums[j]=nums[c];

                nums[c]=temp;

                c++;

            }

        }

        return nums;

    }

    public static void main(String args[])

    {

        Scanner sc=new Scanner(System.in);

        int i,j;

        System.out.println("ENTER LENGTH");

        i=sc.nextInt();

        int a[]=new int[i];
```

```

int x[]=new int[i];

System.out.println("ENTER VALUES");

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

{

    a[j]=sc.nextInt();

}

Solution xx = new Solution();

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

{

    x[p]=xx.sortArrayByParity(a);

    System.out.println(x[p]);

}

}

}

```

Answer 6

```

import java.util.*;

class Solution {

    public int maxProfit(int[] prices) {

        int min=Integer.MAX_VALUE;

        int n=prices.length;

        int profit =0;

        int maxprofit=0;

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

```



```
        if(prices[i]<min){
            min=prices[i];
        }
        else if(prices[i]>min){
            profit=prices[i]-min;
            if(profit>maxprofit){
                maxprofit=profit;
            }
        }
    }

    return maxprofit;
}
```

```
public static void main(String args[])
{
    Scanner sc=new Scanner(System.in);

    int i,j;

    System.out.println("ENTER PRICE LENGTH");

    i=sc.nextInt();

    int a[]=new int[i];

    int x[]=new int[i];

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

```

for(j=0;j<i;j++)
{
    a[j]=sc.nextInt();
}

Solution xx = new Solution();

x=xx.maxProfit(a);

System.out.println(x);
}
}

```

Answer 7

```

import java.util.*;

class Solution {

    public int maxProfit(int[] prices) {

        int[] buy = new int[prices.length];
        int[] sell = new int[prices.length];

        buy[0] = -prices[0];

        for(int i = 1; i < prices.length; i++) {

            buy[i] = Math.max(sell[i-1] - prices[i], buy[i-1]);

```

```
        sell[i] = Math.max(sell[i-1], buy[i-1] + prices[i]);  
    }  
}
```

```
    return Math.max(buy[prices.length - 1], sell[prices.length - 1]);  
}
```

```
public static void main(String args[])  
{  
    Scanner sc=new Scanner(System.in);  
  
    int i,j;  
  
    System.out.println("ENTER PRICE LENGTH");  
  
    i=sc.nextInt();  
  
    int a[]=new int[i];  
  
    int x[]=new int[i];  
  
    System.out.println("ENTER VALUES");  
  
    for(j=0;j<i;j++)  
    {  
        a[j]=sc.nextInt();  
    }  
  
    Solution xx = new Solution();  
  
    x=xx.maxProfit(a);  
  
    System.out.println(x);  
}  
}
```