

ציון בחינה	4	3	2	1	לשימוש הבודקים

שאלה 1:

```

public static char maxLetter(String str){
    int[] freq = count(str);
    int i = maxIndex(freq);
    return (char)('a'+i);
}

public static int maxIndex(int[] arr){
    int answer = 0;
    for (int i=1; i<arr.length; i++)
        if (arr[i] > arr[answer])
            answer=i;
    return answer;
}

public static int[] count(String str){
    int [] freq = new int[26];
    for (int i = 0; i < str.length(); i++){
        int c = str.charAt(i);
        if (c >= 'a' && c <= 'z')
            freq[c - 'a']=freq[c - 'a']+1 ;
        else if(c >= 'A' && c <= 'Z')
            freq[c - 'A']=freq[c - 'A']+1 ;
    }
    return freq;
}

```

שאלה 3

```
public static String decToBin(int n){  
    String answer;
```

```
        if (n<2)  
            answer = n + "" ;  
        else  
            answer = decToBin(n/2)+n%2;
```

```
    return answer;
```

```
}
```

שאלה 4

```
public static boolean splitArray(int[] nums){
```

```
    return splitArray(nums, 0, 0);
```

```
}
```

```
public static boolean splitArray(int[] nums, int i, int diff){
```

```
    boolean result;
```

```
        if (i==nums.length & diff==0) result =true;
```

```
        else if (i==nums.length) result = false;
```

```
        else
```

```
            result = splitArray(nums,i+1,diff+arr[i]) |
```

```
                    splitArray(nums,i+1,diff-arr[i]);
```

```
    return result;
```

```
}
```

שאלה 2

```
public static boolean isSorted(int[][] table){  
    boolean result;
```

```
        result = true;  
        int n= table.length, m= table[0].length;  
        for (int i=0; i<n & result; i++)  
            for (int j=0; j<m & result; j++)  
                if ( (i<n-1 && table[i][j]>table[i+1][j]) |  
                    (j<m-1 && table[i][j]>table[i][j+1]) )  
                    result=false;
```

```
        return result;
```

```
    }
```