Write program fragments (i.e., you do not need to write complete programs) that read a line of input as a string and print:

a. Only the uppercase letters in the string

b. Every second letter of the string

c. The string with all vowels replaced by an underscore

```
1.
2.
3.
             String
5.
             String
6.
             String
8.
9.
10.
11.
             for (int
12.
13.
14.
                           if (word[i] == vowe]
15.
16.
17.
18.
19.
```

```
20.     }
21.     out.print(vow);
```

d. The number of vowels in the string

```
2.
3.
    array
4.
               String
5.
               String
6.
7.
                               l = new char[v0welz.
8.
               for (int i = 0; i < vOwelz.
9.
10.
11.
12.
                     int k = 0;
word [i] = enter.c
while (k <= vOwelz
13.
14.
15.
16.
17.
18.
19.
20.
21.
22.
```

2.
int[] a = { 1, 2, 3, 4, 5, 4, 3, 2, 1, 0 };

What are the contents of the array a after the following loops complete?

```
lint i = 1;
2while (i < 10) {
    a[i] = a[i - 1];
    i++;
4}
5

b. int[] a = { 1, 0, 0, 0, 0, 0, 0, 0, 0, 0};

lint i = 9;
2while (i > 0) {
    a[i] = a[i - 1];
    i--;
    5}
```

a. int[] a = { 1, 1, 1, 1, 1, 1, 1, 1, 1};

```
C. int[] a = { 1, 1, 1, 1, 1, 1, 1, 1, 1, 0 };
      1_{\text{int i}} = 0;
      2while (i < 9) {
            a[i] = a[i + 1];
      3
            i++;
      4
      5}
d. int[] a = \{ 0, 0, 0, 0, 0, 0, 0, 0, 0, 0 \};
      1_{\text{int i}} = 8;
      2while (i >= 0) {
      3
           a[i] = a[i + 1];
            i--;
      4
      5}
e. int[] a = { 1, 3, 6, 10, 15, 19, 22, 24, 25, 25 };
      l_{inti} = 1;
      2while (i < 10) {
      3
           a[i] = a[i] + a[i - 1];
            i++;
      4
      · 5
f. int[] a = \{ 1, 0, 3, 0, 5, 0, 3, 0, 1, 0 \};
      1_{\text{int i}} = 1;
      2while (i < 10) {
         a[i] = 0;
      3
            i = i + 2;
      4
      5}
g. int[] a = \{ 1, 2, 3, 4, 5, 1, 2, 3, 4, 5 \};
       1_{\text{int i}} = 0;
      2while (i < 5) {
           a[i + 5] = a[i];
      3
            i++;
      4
      5
h. int[] a = { 1, 1, 2, 3, 4, 4, 3, 2, 1, 0 };
      1_{int i} = 1;
      2_{\text{while (i < 5) }}\{
            a[i] = a[9 - i];
      3
            i++;
      4
      5
```