TUTORIAL 2: Examining Java code SOLUTION

Question 1

Look at the following Java code fragment:

```java
int[] x = {2, 1, 4, 5, 7};
int limit = 3;
int i = 0;
int sum = 0;

while ((sum<limit) && (i<x.length)){
     i++;
     sum = sum + x[i];
}
```

Question: What are the values of `i` and `sum` after this code has executed?

i = 2
sum = 5

Question 2

Look at the following code fragment.

```java
int[] array1 = {2, 4, 1, 3};
int[] array2 = {0, 0, 0, 0};
int a = 0;

for (int i=1; i<array1.length; i++)
{
     if ( array1[i] >= 2 )
     {
          array2[a] = array1[i];
          a++;
     }
}
```

Question: What does `array2` contain after this code has executed?

array2 = {4,3,0,0}