Practice with arrays

Suppose we have a program that begins with the following line:

```java
int[] nums = new int[5];
```

This line could be followed by any of the following. Unfortunately, none of these will compile. Figure out what is wrong in each case and make a correction that will result in the code successfully compiling.

1. ```java
   nums[3] = 17.2;
   ```

2. ```java
   nums[5] = 2;
   ```

3. ```java
   int[] nums = new int[17];
   ```

4. ```java
   nums = 4;
   ```

5. ```java
   for(int i = 0; i <= 5; i++) {
       nums[i] = i;
   }
   ```