Practice with arrays

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

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

2. `nums[5] = 2;`

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

4. `nums = 4;`

5.

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