1. 1. valid
   2. valid
   3. invalid
   4. invalid
   5. invalid
   6. valid
   7. valid
   8. invalid
   9. invalid
   10. valid
2. 1. valid, 6
   2. valid, 3
   3. valid, 7
   4. invalid, the maximum index available in a[] is 9
   5. valid, 9
   6. invalid, Math.sqrt returns a double that is not a valid index in a
3. 1. intArray[] is comprised of ints but is later declared as a double[] object, you cannot do this in java.
   2. you cannot declared a double to a length of an array
   3. an array cannot have a negative length
   4. you cannot name an object []
4. import java.util.\*;

public static int selectRandom(int[] a){

Random gen = new Random();

int r = gen.nextInt(a.length);

return a[r];

}