## **Answer Key**

1.	Enter description of the Enter	16.	B. or provided the profits	31.	A
2.	C	17.	<b>A</b>	32.	A
3.	Extra real physics	18.	В	33.	В
4.	A	19.	D	34.	D
5.	C	20.	C	35.	В
6.	C	21.	D	36.	D
7.	D	22.	В	37.	D
8.	A	23.	E	38.	E
9.	D.	24.	C	39.	E
10.	В	25.	D	40.	D
11.	C	26.	A	41.	C
12.	E	27.	E	42.	A
13.	В	28.	D	43.	E
14.	С	29.	D		
15.	A	30.	E		

## **Answer Explanations**

1. (E) Segment I is an initializer list which is equivalent to

```
int[] arr = new int[4];
arr[0] = 0;
arr[1] = 0;
arr[2] = 0;
arr[3] = 0;
```

Segment II creates four slots for integers, which by default are initialized to 0. The for loop in segment III is therefore unnecessary. It is not, however, incorrect.

- 2. **(C)** If arr contains no negative integers, the value of i will eventually exceed N-1, and arr[i] will cause an ArrayIndexOutOfBoundsException to be thrown.
- 3. **(E)** The intent is to sum elements arr[0], arr[1], ..., arr[arr.length-1]. Notice, however, that when i has the value arr.length-1, it is incremented to arr.length in the loop, so the statement sum += arr[i] uses arr[arr.length], which is out of range.
- 4. (A) The code segment has the effect of removing all occurrences of 0 from array arr1. The algorithm copies the nonzero elements to the front of arr1. Then it transfers them to array arr2.
- 5. **(C)** If arr[i] < someValue for all i from 2 to k, SMALL will be printed on each iteration of the for loop. Since there are k 1 iterations, the maximum number of times that SMALL can be printed is k 1.