**TEST YOURSELF #4**

For each of the following code fragments, fill in the number of the picture that best illustrates the value of A after the code executes, or fill in "error" to indicate that executing the code causes a runtime error. (In the pictures, a diagonal line indicates a null pointer.)

|  |  |
| --- | --- |
| *Code* | *Corresponding Picture or Error* |
| int [] A; | 9 |
| int [] A = new int [4]; | 6 |
| int [][] A = new int[4][3]; | 3 |
| int [][] A = new int[4][]; A[1] = new int[4]; A[3] = new int[2]; | 8  1 |
| int [] A = new int[4]; int [] B = {0,1,2,3,4,5,6,7,8,9}; System.arraycopy(B,2,A,0,4); | 6  14 |
| int [] A = new int[4]; int [] B = {2,3,4}; System.arraycopy(B,0,A,0,4); | 6  Error – too few B values to copy |
| int [] A = new int[4]; int [] B = {0,1,2,3,4,5,6,7,8,9}; System.arraycopy(B,8,A,0,4); | Error – too few values to copy from B |
| int [] A = {1,1,1,1}; int [] B = {2,2,2}; System.arraycopy(A,0,B,1,2); System.arraycopy(B,0,A,0,3); | 12 |
| int [] A = new int[4]; int [] B = {0,1,2,3,4,5,6,7,8,9}; System.arraycopy(B,0,A,0,10); | Error – not enough space in A |
| int [][] A = new int[4][3]; int [] B = {1,2,3,4,5,6,7,8,9,10}; System.arraycopy(B,0,A[0],0,3); System.arraycopy(B,1,A[1],0,3); System.arraycopy(B,2,A[2],0,3); System.arraycopy(B,3,A[3],0,3); | 10 |