Derivation of the Answers to Example 2 on Page 1 of:

https://euclid.cs.qc.cuny.edu/316/FinalExamExercises.pdf

Call/Pass by Value

Call/Pass by Value-Result

Call/Pass by Value-Result (Algol W)

Call/Pass by Reference

Call/Pass by Name

Call/Pass by Value

```java
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}

    Output:
```

static:

e	1
a[0]	0
a[1]	1
a[2]	2

3

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:
e   1
a[0] 0
a[1] 1
a[2] 2

test:
x 1
y 0

Output:

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:
```
  e    1
a[0]   0
a[1]   1   6
a[2]   2
```

test:
```
  x    1
  y    0
```

Output:

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1	**2**
a[0]	0	
a[1]	1	6
a[2]	2	

test:

x	1
y	0

Output:

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }
```

```
  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1	2
a[0]	0	
a[1]	1	6
a[2]	2	

test:

x	1	**4**
y	0	

Output:

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1	2
a[0]	0	
a[1]	1	6
a[2]	2	

test:

x	1	4
y	0	**-1**

Output:

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1	2
a[0]	0	
a[1]	1	6
a[2]	2	

test:

x	1	4
y	0	-1

Output: x y a[0] a[1] a[2] e
           4 -1

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```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1	2
a[0]	0	
a[1]	1	6
a[2]	2	

Output: x   y   a[0]   a[1]   a[2]   e
              4 -1

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1	2
a[0]	0	
a[1]	1	6
a[2]	2	

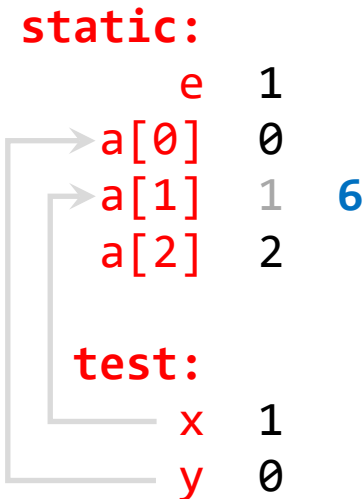| Output:	x	y	a[0]	a[1]	a[2]	e
	4	-1	0	6	2	2

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Call/Pass by Value-Result

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

```
    e   1
  a[0]   0
  a[1]   1
  a[2]   2
```

Output:

```java
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:
```
      e    1
   a[0]    0
   a[1]    1
   a[2]    2
```

test:
```
      x    1
      y    0
```

Output:

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```
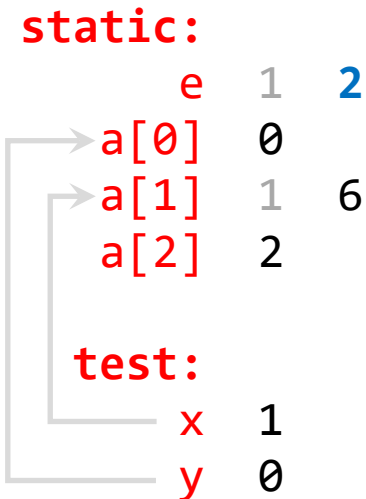
static:
```
      e    1
    a[0]   0
    a[1]   1   6
    a[2]   2
```

test:
```
      x    1
      y    0
```

Output:

```java
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```
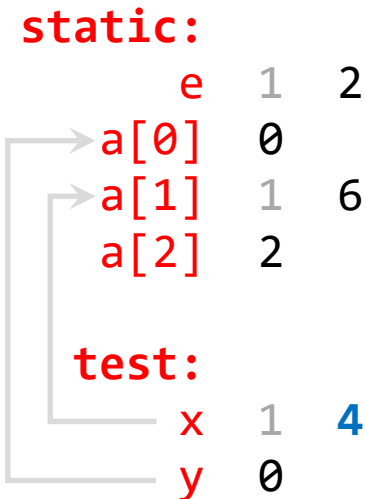
static:
```
      e   1  2
   a[0]   0
   a[1]   1  6
   a[2]   2

test:
      x   1
      y   0
```

Output:

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```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```
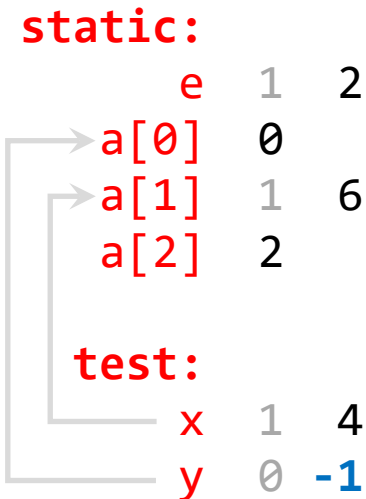
static:
```
     e    1   2
   a[0]   0
   a[1]   1   6
   a[2]   2

test:
     x    1   4
     y    0
```

Output:

```java
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1	2
a[0]	0	
a[1]	1	6
a[2]	2	

test:

x	1	4
y	0	**-1**

Output:

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```
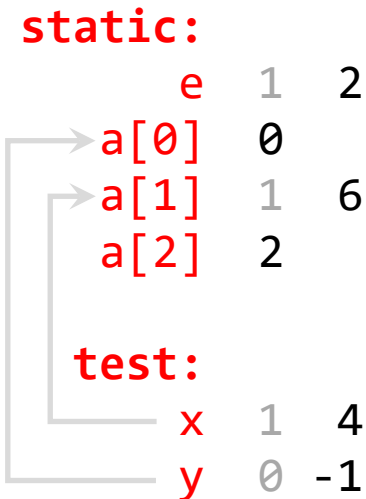
static:
```
       e   1   2
    a[0]   0
    a[1]   1   6
    a[2]   2

test:
       x   1   4
       y   0  -1
```

Output: x y a[0] a[1] a[2] e
         4 -1

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```
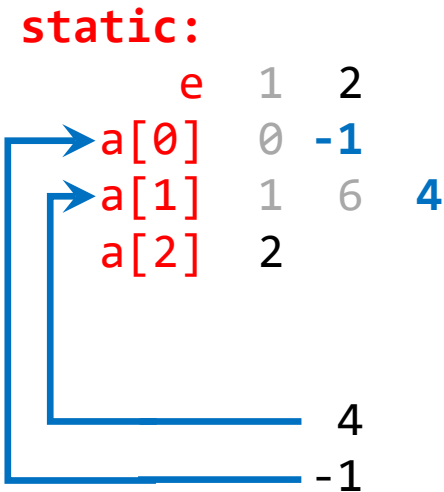
static:
```
        e   1  2
  →    a[0]  0  -1
  →    a[1]  1  6   4
       a[2]  2
                      4
                      -1
```

Output: x y a[0] a[1] a[2] e
          4 -1

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```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

```
    e   1  2
   a[0]  0 -1
   a[1]  1  6   4
   a[2]  2
```

Output:
x	y	a[0]	a[1]	a[2]	e
4	-1	-1	4	2	2

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Call/Pass by Value-Result (Algol W)

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}

    Output:
```

static:

e	1
a[0]	0
a[1]	1
a[2]	2

23

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1
a[0]	0
a[1]	1
a[2]	2

test:

a[e]	x	**1**
a[e-1]	y	**0**

Output:

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:
```
      e    1
    a[0]   0
    a[1]   1   6
    a[2]   2
```

test:
```
   a[e]  x   1
 a[e-1]  y   0
```

Output:

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```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1	**2**
a[0]	0	
a[1]	1	6
a[2]	2	

test:

a[e]	x	1
a[e-1]	y	0

Output:

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:
```
     e    1  2
   a[0]   0
   a[1]   1  6
   a[2]   2
```

test:
```
  a[e]  x   1  4
a[e-1]  y   0
```

Output:

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```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1	2
a[0]	0	
a[1]	1	6
a[2]	2	

test:

a[e]	x	1	4
a[e-1]	y	0	-1

Output:

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1	2
a[0]	0	
a[1]	1	6
a[2]	2	

test:

a[e]	x	1	4
a[e-1]	y	0	-1

Output:

x	y	a[0]	a[1]	a[2]	e
4	-1				

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```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:
```
        e    1   2
      a[0]   0
      a[1]   1   6  -1
      a[2]   2   4

   a[e]           4
 a[e-1]          -1
```

Output: x   y   a[0]   a[1]   a[2]   e
            4 -1

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```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

```
     e   1  2
  a[0]   0
  a[1]   1  6 -1
  a[2]   2  4
```

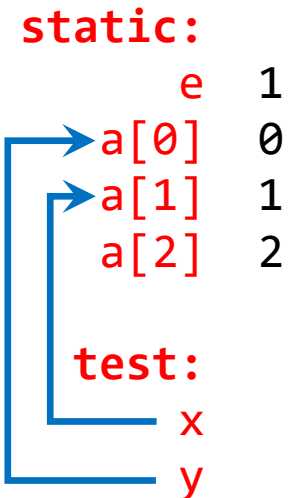| Output:	x	y	a[0]	a[1]	a[2]	e
	4	-1	0	-1	4	2

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Call/Pass by Reference

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

```
      e   1
   a[0]   0
   a[1]   1
   a[2]   2
```

Output:

```java
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

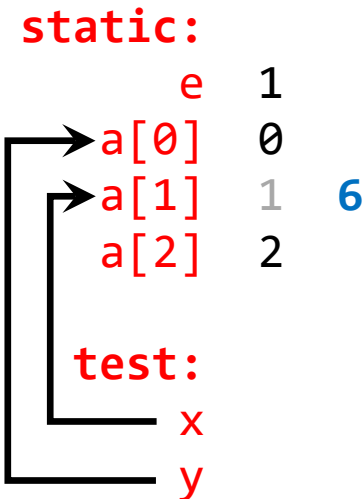**static:**

e   1

a[0] 0

a[1] 1

a[2] 2

test:

x

y

Output:

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:
```
      e   1
    a[0]  0
    a[1]  1   6
    a[2]  2
```

test:
```
      x
      y
```

Output:

```java
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```
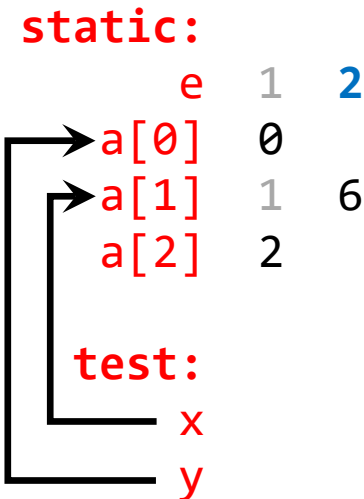
static:
```
      e    1   2
    →a[0]  0
    →a[1]  1   6
     a[2]  2

test:
      x
      y
```

Output:

36

```java
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```
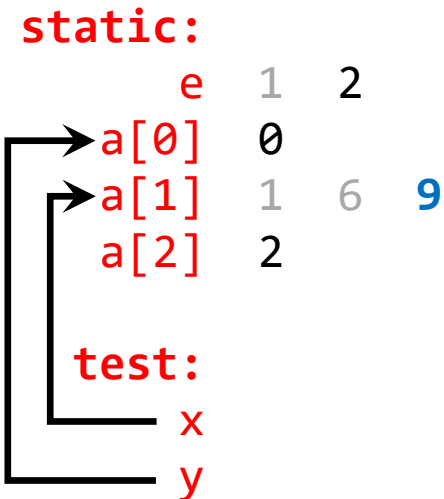
static:

```
    e    1   2
  a[0]   0
  a[1]   1   6   9
  a[2]   2

test:
    x
    y
```

Output:

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```
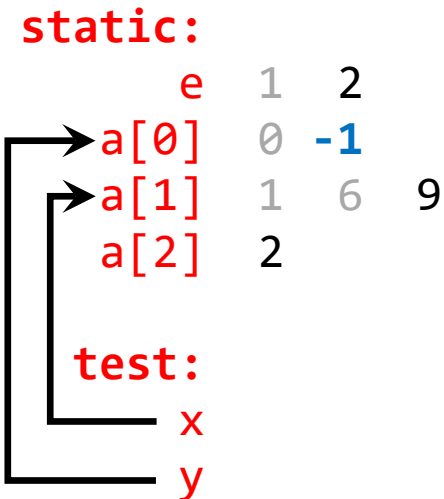
static:

```
      e    1  2
    a[0]   0  -1
    a[1]   1  6   9
    a[2]   2
```

test:

```
      x
      y
```

Output:

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:
```
       e   1  2
 a[0]  0 -1
 a[1]  1  6   9
 a[2]  2
```

test:
```
    x
    y
```

Output: x y a[0] a[1] a[2] e
         9 -1

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:
```
      e   1  2
   a[0]   0 -1
   a[1]   1  6   9
   a[2]   2
```

Output: x   y   a[0]   a[1]   a[2]   e
         9 -1

40

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:
```
     e    1   2
  a[0]    0  -1
  a[1]    1   6   9
  a[2]    2
```

Output:
x	y	a[0]	a[1]	a[2]	e
9	-1	-1	9	2	2

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Call/Pass by Name

```java
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1
a[0]	0
a[1]	1
a[2]	2

Output:

43

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:
```
        e    1
      a[0]   0
      a[1]   1
      a[2]   2
```

test:
```
   a[e]   x
 a[e-1]   y
```

Output:

44

```java
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

```
      e   1
    a[0]  0
    a[1]  1   6
    a[2]  2
```

test:

```
  a[e]  x
a[e-1]  y
```

Output:

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1	2
a[0]	0	
a[1]	1	6
a[2]	2	

test:

a[e]   x
a[e-1] y

Output:

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1	2
a[0]	0	
a[1]	1	6
a[2]	2	**5**

test:

```
  a[e]   x
a[e-1]   y
```

Output:

```java
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1	2
a[0]	0	
a[1]	1	6 5
a[2]	2	5

test:

a[e] x
a[e-1] y

Output:

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1	2
a[0]	0	
a[1]	1	6 5
a[2]	2	5

test:

a[e]   x
a[e-1] y

Output: x   y   a[0]   a[1]   a[2]   e
          5   5

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:

e	1	2	
a[0]	0		
a[1]	1	6	5
a[2]	2	5	

Output:

x	y	a[0]	a[1]	a[2]	e
5	5				

50

```
class FinalExam {
  static int e = 1;
  static int a[] = {0,1,2};

  public static void main(String args[])
  {
    test(a[e], a[e-1]);
    System.out.println(a[0] + " " + a[1] + " " + a[2] + " " + e);
  }

  static void test (int x, int y)
  {
    a[1] = 6;
    e = 2;
    x += 3;
    y--;
    System.out.print(x + " " + y + " ");
  }
}
```

static:
```
    e   1   2
  a[0]  0
  a[1]  1   6   5
  a[2]  2   5
```

Output:
x	y	a[0]	a[1]	a[2]	e
5	5	0	5	5	2