Best-Fit Succeeds / First-Fit Fails:

```
//First Fit
HeapManagerFF ff = new HeapManagerFF(new int[7]);
 int a = ff.allocate(2);
 int b = ff.allocate(1);
 int c = ff.allocate(1);
 ff.deallocate(a);
 ff.deallocate(c);
 int d = ff.allocate(1);
 int e = ff.allocate(2);
```

```
//Best-Fit
HeapManager mm = new HeapManager(new int[7]);
 int a = mm.allocate(2);
 int b = mm.allocate(1);
 int c = mm.allocate(1);
 mm.deallocate(a);
 mm.deallocate(c);
 int d = mm.allocate(1);
 int e = mm.allocate(2);
```

Best-Fit Fails/ First-Fit Succeeds:

```
//First-Fit
 HeapManagerFF hff = new HeapManagerFF(new int[11]);
  int x = hff.allocate(4);
  int y = hff.allocate(1);
  int z = hff.allocate(3);
  hff.deallocate(x);
  hff.deallocate(z);
  int o = hff.allocate(2);
  int r = hff.allocate(3);
  int e = hff.allocate(1);
```

```
//Best-Fit
HeapManager mm = new HeapManager(new int[11]);
  int x = mm.allocate(4);
  int y = mm.allocate(1);
  int z = mm.allocate(3);
  mm.deallocate(x);
  mm.deallocate(z);
  int o = mm.allocate(2);
  int r = mm.allocate(3);
  int e = mm.allocate(1);
```