```
Source: Lecture 2 slide 49.
  boolean running = true;
2 Thread t1 = new Thread(() \rightarrow {
       while (running) {
 3
                /* do nothing */
 4
       }
       System.out.println("t1 finishing
   execution");
   })
9 t1.start();
   try{Thread.sleep(500);}catch(...){...}
   running = false;
   System.out.println("Main finishing
13 execution");
```

```
Source: Lecture 2 slide 58.
1 // shared variables
2 int x=0; int y=0;
3 int a=0; int b=0;4½
4 Thread one = new Thread(() \rightarrow {
       a=1;
       x=b;
7 });
8 Thread other = new Thread(() \rightarrow {
       b=1;
9
       y=a;
10
  });
11
12 one.start();other.start();
one.join();other.join();
14 System.out.println("("+x+","+y+")");
```

```
Source: Lecture 5 slide 34.
                                                 public T pop() {
  public void push(T value) {
                                                      Node newHead;
                                              11
       Node newHead = new Node(value);
2
                                                      Node oldHead;
                                              12
      Node oldHead;
                                                      do {
                                              13
      do {
4
                                                      oldHead = top.get();
                                              14
                oldHead = top.get();
5
                                                      if(oldHead == null) { return null; }
                                              15
                newsHead.next = oldHead;
6
                                                      newHead = oldHead.next;
                                              16
       } while (!
7
                                                      } while (!
                                              17
  top.compareAndSet(oldHead,newHead));
                                                 top.compareAndSet(oldHead,newHead));
                                              18
9
                                                      return oldHead.value;
                                              19
                                                 }
                                              20
```

```
Source: Lecture 5 slide 11.
                                             public int getAndAdd(int delta) {
   class MyAtomicInteger {
                                                         int oldValue, newValue;
                                          15
2
                                                         do {
       public int addAndGet(int delta) 16
3
                                                             oldValue = get();
                                          17
4
                                                             newValue = oldValue +
                                          18
               int oldValue, newValue;
5
                                             delta;
                                          19
               do {
6
                                                         } while (!compareAndSet(
                                          20
                   oldValue = get();
                                                                     oldValue,
                                          21
                   newValue = oldValue+
8
                                             newValue));
                                          22
   delta;
                                                         return oldValue;
                                          23
               } while (!
10
   compareAndSet(oldValue, newValue));
11
               return newValue;
12
                                             }
                                          26
       }
13
```