

Table 1

| Practice 2 | Time  | 1   | 2                                                         | 3                      | 4     | 5     | 6     | 7   | 8     |     |       |
|------------|-------|-----|-----------------------------------------------------------|------------------------|-------|-------|-------|-----|-------|-----|-------|
| Section    | Start |     |                                                           |                        |       |       |       |     |       |     |       |
| (a)        | Empty | 'a' | 'b'                                                       | 'c'                    | 'b'   | 'a'   | Empty |     |       |     |       |
|            |       |     | 'a'                                                       | 'b'                    | 'a'   |       |       |     |       |     |       |
|            |       |     |                                                           | 'a'                    |       |       |       |     |       |     |       |
|            |       |     |                                                           |                        |       |       |       |     |       |     |       |
| (b)        | Empty | 'a' | 'b'                                                       | 'c'                    | 'c'   | 'b'   | 'c'   | 'b' | 'c'   |     |       |
|            |       |     | 'a'                                                       | 'b'                    | 'b'   | 'a'   | 'b'   | 'c' | 'b'   |     |       |
|            |       |     |                                                           | 'a'                    | 'a'   |       | 'a'   | 'b' | 'a'   |     |       |
|            |       |     |                                                           |                        | x = c | y = b |       | 'a' |       |     |       |
|            |       |     |                                                           |                        |       |       |       |     |       |     |       |
| (c)        | Empty | 'a' | 'b'                                                       | 'c'                    | 'b'   | 'a'   | Empty |     |       |     |       |
|            |       |     | 'a'                                                       | 'b'                    | 'a'   |       |       |     |       |     |       |
|            |       |     |                                                           | 'a'                    |       |       |       |     |       |     |       |
|            |       |     |                                                           | while (!<br>s.empty()) |       |       |       |     |       |     |       |
|            |       |     |                                                           |                        |       |       |       |     |       |     |       |
| (d)        | Empty | 'a' | 'b'                                                       | 'a'                    | Empty | 'c'   | Empty | 'a' | Empty | 'b' | Empty |
|            |       |     | 'a'                                                       |                        |       |       |       |     |       |     |       |
|            |       |     | while (!<br>s.empty()) {<br>x = s.top();<br>s.pop();<br>} |                        |       |       |       |     |       |     |       |
|            |       |     | x = b                                                     | x = a                  |       |       |       |     |       |     |       |
|            |       |     |                                                           |                        |       |       |       |     |       |     |       |
|            |       |     |                                                           |                        |       |       |       |     |       |     |       |

Elements

|     |     |     |       |
|-----|-----|-----|-------|
| 'a' | 'b' | 'c' | Empty |
|-----|-----|-----|-------|