```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                13
Stack last = stackNew(t.len);
                                                12
stackPush(&first, 0);
                                                11
stackPush(&last, t.len-1);
                                                10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                14
Stack first = stackNew(t.len);
                                                13
Stack last = stackNew(t.len);
                                                12
stackPush(&first, 0);
                                                11
stackPush(&last, t.len-1);
                                                10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                13
Stack last = stackNew(t.len);
                                                12
stackPush(&first, 0);
                                                11
stackPush(&last, t.len-1);
                                                10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                14
Stack first = stackNew(t.len);
                                                13
Stack last = stackNew(t.len);
                                                12
stackPush(&first, 0);
                                                11
stackPush(&last, t.len-1);
                                                10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                10
                                                         top
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                10
                                                         top
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                10
                                                         top
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                13
Stack last = stackNew(t.len);
                                                12
stackPush(&first, 0);
                                                11
stackPush(&last, t.len-1);
                                                10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                13
Stack last = stackNew(t.len);
                                                12
stackPush(&first, 0);
                                                11
stackPush(&last, t.len-1);
                                                10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                13
Stack last = stackNew(t.len);
                                                12
stackPush(&first, 0);
                                                11
stackPush(&last, t.len-1);
                                                10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                            h
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                            h
                                10
                                                         top
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                13
Stack last = stackNew(t.len);
                                                12
stackPush(&first, 0);
                                                11
stackPush(&last, t.len-1);
                                                10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                13
Stack last = stackNew(t.len);
                                                12
stackPush(&first, 0);
                                                11
stackPush(&last, t.len-1);
                                                10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                            h
                                10
                                                         top
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                13
Stack last = stackNew(t.len);
                                                12
stackPush(&first, 0);
                                                11
stackPush(&last, t.len-1);
                                                10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                            h
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                13
Stack last = stackNew(t.len);
                                                12
stackPush(&first, 0);
                                                11
stackPush(&last, t.len-1);
                                                10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                            h
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                            h
                                                      14
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                            h
                                                      14
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                            h
                                                      14
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                            h
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                            h
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                            h
                             a,p
                                                         top
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                            h
                             a,p
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                            h
                             a,p
                                                       9
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                   10
                                                         top
                                             h
                             a,p
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                   10 14
                                             h
                             a,p
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                          top
                                                   10 14
                                             h
                             a,p
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                      14
                                 a
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                            h
                                 a
                                                       9
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                             h
                                 a
                                                       9
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                            b
                                 a
                                                       9
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                   10
                                                         top
                                             h
                                 a
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                   10 12
                                             h
                                 a
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
                                                   13
    stackPush(&last, b);
                                                         top
                                                   10
                                                      12
                                             h
                                 a
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                         top
    stackPush(&first, p+1);
                                                   13 14
    stackPush(&last, b);
                                                   10
                                                      12
                                             h
                                 a
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                          top
    stackPush(&first, p+1);
                                                   13 14
    stackPush(&last, b);
                                                   10
                                                      12
                                             h
                                 a
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                         top
    stackPush(&first, p+1);
                                                      14
    stackPush(&last, b);
                                                   10
                                                      12
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                      12
                                                   10
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                   10 12
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                   10 12
                                         a,p
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
                                                   13
    stackPush(&last, b);
                                                         top
                                                   10
                                                      12
                                         a,p
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                         top
    stackPush(&first, p+1);
                                                   13 13
    stackPush(&last, b);
                                                   10
                                                      12
                                         a,p
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                         top
    stackPush(&first, p+1);
                                                   13
                                                      13
    stackPush(&last, b);
                                                   10
                                                      12
                                         a,p
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
                                                  6
    stackPush(&first, a);
                                                  5
                                                          top
    stackPush(&last, p);
                                                    14 14
    stackPush(&first, p+1);
                                                    13
                                                       13
    stackPush(&last, b);
                                                    10
                                                       12
                                         a,p
                                                       9
                                 10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                  14
Stack first = stackNew(t.len);
                                                  13
Stack last = stackNew(t.len);
                                                  12
stackPush(&first, 0);
                                                  11
stackPush(&last, t.len-1);
                                                  10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
                                                  6
    stackPush(&first, a);
                                                  5
                                                          top
    stackPush(&last, p);
                                                    14 14
    stackPush(&first, p+1);
                                                    13 | 13
    stackPush(&last, b);
                                                    10
                                                       12
                                         a,p
                                                       9
                                 10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
                                                         top
    stackPush(&last, p);
                                                      14
    stackPush(&first, p+1);
                                                   13
    stackPush(&last, b);
                                                      13
                                                   10
                                                      12
                                            a,b
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                          top
    stackPush(&first, p+1);
                                                    13 | 13
    stackPush(&last, b);
                                                    10
                                                       12
                                            a,b
                                                       9
                                 10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                          top
    stackPush(&first, p+1);
                                                    13 | 13
    stackPush(&last, b);
                                                    10
                                                       12
                                            a,b
                                                       9
                                 10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                          top
    stackPush(&first, p+1);
                                                    13 | 13
    stackPush(&last, b);
                                                    10
                                                       12
                                            a,b
                                                       9
                                 10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                         top
    stackPush(&first, p+1);
                                                      13
    stackPush(&last, b);
                                                   10
                                                      12
                                         a,p
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                      12
                                                   10
                                        a,b,p
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                   10 12
                                        a,b,p
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                   10 12
                                        a,b,p
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                      12
                                 a
                                         b,p
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                       b
                                 а
                                                       9
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                       b
                                 a
                                                       9
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                      9
                                                      8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                   10
                                                         top
                                 a
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                   10 11
                                 a
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                   10
                                                      11
                                 a
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                         top
    stackPush(&first, p+1);
                                                   12 12
    stackPush(&last, b);
                                                   10
                                                      11
                                 a
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                         top
    stackPush(&first, p+1);
                                                   12 12
    stackPush(&last, b);
                                                   10
                                                      11
                                 a
                                       b
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                         top
    stackPush(&first, p+1);
                                                      12
    stackPush(&last, b);
                                                   10
                                                      11
                                    p a,b
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                   10 11
                                    p a,b
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                   10 11
                                    p a,b
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                   10 11
                                    p a,b
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                      11
                                 a
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                 a b,p
                                                      9
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                 a b,p
                                                      9
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                a,p b
                                                      9
                                                      8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                   10
                                                         top
                                a,p
                                                      9
                                10
                                                      8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                   10 10
                                a,p
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                   10
                                                      10
                                a,p
                                                      9
                                10
                                                      8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                         top
    stackPush(&first, p+1);
                                                   11 11
    stackPush(&last, b);
                                                   10
                                                      10
                                a,p
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                         top
    stackPush(&first, p+1);
                                                   11 11
    stackPush(&last, b);
                                                   10
                                                      10
                                a,p
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                         top
    stackPush(&first, p+1);
                                                      11
    stackPush(&last, b);
                                                   10
                                                      10
                                 p a,b
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                   10
                                                      10
                                 p a,b
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                   10 10
                                 p a,b
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                   10 10
                                 p a,b
                                                       9
                                10
                                                       8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                      10
                                a,p
                                                      9
                                10
                                                      8
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                               a,b,p
                                                       9
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                               a,b,p
                                                       9
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                               a,b,p
                                                       9
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                              a b,p
                                                       g
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                             a,b p
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                             a,b p
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                             a,b p
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                              h
                                 p
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                           h
                                 p
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                           h
                                 p
                                10
                                                         top
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                           h
                     b
                                                         top
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                           b
                     р
                        8
                                10
                                                         top
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                           b
                     р
                                                         top
                        8
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                           b
                     р
                                                         top
                        8
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                           b
                     р
                        8
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                           b
                     р
                                                       8
                        8
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                           b
                     р
                        а
                                                       8
                        8
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                           b
                     р
                        a
                                                         top
                        8
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                           b
                     р
                        a
                                                         top
                        8
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                       a,p b
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                       a,p b
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                       a,p b
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                    8
                                                         top
                       a,p b
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                    8
                                                      8
                       a,p b
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                    8
                                                       8
                       a,p b
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                       8
                          a,b
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                          a,b
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                          a,b
                                                       7
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                          a,b
                                                       7
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                       a,p b
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                       a,b,p
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                       a,b,p
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                       a,b,p
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                       b,p
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                13
Stack last = stackNew(t.len);
                                                12
stackPush(&first, 0);
                                                11
stackPush(&last, t.len-1);
                                                10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                     h
                        р
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                     h
                        р
                                10
                                                         top
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                     h
   a,p
                                10
                                                         top
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                     h
   a,p
                                10
                                                         top
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                     h
   a,p
                                                         top
            3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                     h
   a,p
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                     h
   a,p
            3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                     h
   a,p
                                                       6
            3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                     h
      a
                                                      6
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                     h
      a
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                     h
      a
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                     h
      а
                                                         top
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                     h
      а
                                                         top
                  6
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                     h
      а
                  6
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                     h
      а
                                                       3
                  6
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                       6
                     h
      а
                                                       3
                  6
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                       6
                     h
      а
                                                       3
                  6
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                      6
                     h
                                                       3
                  6
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                     h
                                                       3
                  6
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                     h
                                                       3
                  6
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                     b
                                                      3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                     b
                  р
                                                       3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                     b
                  р
                                                       3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                    6
                                                         top
                     b
                  р
                                                       3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                         top
    stackPush(&first, p+1);
                                                    6
                                                       6
    stackPush(&last, b);
                                                       5
                     b
                  р
                                                       3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                          top
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                    6
                                                       6
                                                       5
                     b
               a
                  р
                                                       3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                         top
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                       6
                                                       5
                  p a,b
                                                       3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                       5
                  p a,b
                                                       3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                       5
                  p a,b
                                                       3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                       5
                  p a,b
                                                       3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                     b
                  р
                                                       3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
               a b,p
                                                       3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
               a b,p
                                                       3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
              a,p b
                                                       3
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
              a,p b
                                                       3
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
              a,p b
                                                       3
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
                                                    5
    stackPush(&last, b);
                                                         top
              a,p b
                                                       3
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                         top
    stackPush(&first, p+1);
    stackPush(&last, b);
              a,p b
                                                       3
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                         top
    stackPush(&first, p+1);
                                                    5
                                                       5
    stackPush(&last, b);
               a,p b
                                                       3
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
                                                         top
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                       5
               p a,b
                                                       3
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
               p a,b
                                                       3
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                       4
               p a,b
                                                       3
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                       4
               p a,b
                                                       3
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
              a,p b
                                                       3
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
              a,b,p
                                                       3
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
              a,b,p
                                                       3
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
              a,b,p
                                                       3
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
               b,p
      а
                                                       3
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
            b
      а
               р
                                                         top
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
            b
      а
               р
                                                         top
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
            b
                                                         top
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
            b
                                                         top
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
            b
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                    3
                                                         top
            b
                                                       2
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                    3
                                                       3
            b
      а
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                    3
                                                       3
            b
       а
                                                       2
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                      3
         p a,b
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
         p a,b
                                                       2
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
         p a,b
                                                       2
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
         p a,b
                                                       2
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
            b
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
      a b,p
                                                         top
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
      a b,p
                                                         top
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
      a,p b
                                                         top
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
      a,p b
                                                         top
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
      a,p b
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
      a,p b
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                    2
      a,p b
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
                                                       2
      a,p b
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
      p a,b
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
      p a,b
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
      p a,b
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                  9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
      p a,b
                                                       1
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                         top
      a,p b
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
     a,b,p
                                                         top
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
     a,b,p
                                                         top
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
     a,b,p
                                                         top
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
    a b,p
                                                         top
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
   a,b p
                  5
                                10
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
   a,b p
                  5
                                10
                                                         top
```

```
void sort (Tab t) {
uint p, a, b;
                                                 14
Stack first = stackNew(t.len);
                                                 13
Stack last = stackNew(t.len);
                                                 12
stackPush(&first, 0);
                                                 11
stackPush(&last, t.len-1);
                                                 10
while (!stackEmpty(first)) {
  a = stackPop(&first);
                                                 9
  b = stackPop(&last);
  if (a < b) {
    p = a + partition(slice(t, a, b));
    stackPush(&first, a);
    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
   a,b p
                  5
                                10
                                                         top
```