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                                          8
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                                                      14
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                                                       8
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                                                         top
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                                                   10 14
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    3
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                                             b
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                                                   10 12
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                                                    10
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                                             b
                                 а
                                                       9
    3
```

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                                                   10
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                                                   10
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                                                  3
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    stackPush(&first, p+1);
                                                         top
    stackPush(&last. b):
                                                   10
                                                      10
                                a,p b
                                                       9
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                                                  3
                                                   11
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    3
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                                                         top
  } a
                           b
                                                       8
    3
```

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    stackPush(&first, p+1);
    stackPush(&last. b):
                                                         top
                       a,p b
```

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

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    stackPush(&first, p+1);
    stackPush(&last, b);
  } a
                        b,p
                                                         top
    3
```

```
void sort (Tab t) {
                                                14
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```

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    3
                                                         top
```

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  }<sub>a,p</sub>
                      b
                                                           top
```

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    stackPush(&first, p+1);
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  }<sub>a,p</sub>
                      h
             3
                                                           top
```

```
void sort (Tab t) {
                                                  14
uint p, a, b;
                                                  13
Stack first = stackNew(t.len);
                                                  12
Stack last = stackNew(t.len);
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                                                           top
             3
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  } a,p
                     b
                                                         top
            3
```

```
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                                                           top
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                      b
             3
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```
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    stackPush(&last, p);
    stackPush(&first, p+1);
    stackPush(&last, b);
                                                           top
  }<sub>a,p</sub>
                      b
                                                        6
             3
```

```
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uint p, a, b;
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                                                         top
                     h
                                                      6
            3
```

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                     h
                                                         top
            3
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                                                         top
            3
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       а
                     b
                                                         top
```

```
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       а
                     b
                                                         top
            3
                  6
```

```
void sort (Tab t) {
                                                 14
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                                                         top
       а
                     b
            3
                  6
```

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                                                         top
       а
                     b
                                                       3
             3
                  6
```

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    stackPush(&first, p+1);
                                                          top
    stackPush(&last, b);
                                                       6
       а
                     b
             р
                                                       3
             3
                   6
```

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                                                         top
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                                                       6
       а
                     b
                                                       3
             3
                  6
```

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                                                         top
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                                                       6
                     b
                                                       3
             3
                  6
```

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                                                       3
            3
                  6
```

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                                                         top
                     b
                                                       3
            3
                  6
```

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                                                         top
                                                      3
```

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                                                 14
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                                                         top
                                                      3
            3
```

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                                                 14
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                                                         top
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                                                      3
            3
```

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    stackPush(&first, p+1);
                                                         top
    stackPush(&last, b);
                                                       5
                                                       3
            3
```

```
void sort (Tab t) {
                                                 14
uint p, a, b;
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Stack first = stackNew(t.len);
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    stackPush(&first, a);
                                                         top
    stackPush(&last, p);
                                                    6
    stackPush(&first, p+1);
                                                       6
    stackPush(&last, b);
                                                       5
                                                       3
             3
```

```
void sort (Tab t) {
                                                 14
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                                                    6
                                                       6
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                                                       5
                                                       3
             3
```

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                                                       6
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                                                       5
                  p a,b
                                                       3
             3
```

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                                                       5
                  p a,b
                                                       3
             3
```

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                                                         top
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                                                       5
                  p a,b
                                                       3
             3
```

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                                                         top
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                                                       5
                  p a,b
                                                       3
             3
```

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                                                       5
                                                       3
            3
```

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    stackPush(&last, b);
                                                         top
               a b,p
                                                       3
            3
```

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                                                 9
  a = stackPop(&first);
  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
            3
```

```
void sort (Tab t) {
                                                 14
uint p, a, b;
                                                 13
Stack first = stackNew(t.len);
                                                 12
Stack last = stackNew(t.len);
                                                 11
stackPush(&first, 0);
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                                                         top
               a,p b
                                                       3
```

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                                                         top
               a,p b
                                                       3
            3
                  5
```

```
void sort (Tab t) {
                                                 14
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                                                         top
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               a,p b
                                                       3
                  5
```

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    stackPush(&last, p);
    stackPush(&first, p+1);
                                                         top
    stackPush(&last, b);
                                                       4
               a,p b
                                                       3
                  5
```

```
void sort (Tab t) {
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                                                         top
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                                                    5
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                                                       4
               a,p b
                                                       3
             3
                  5
```

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                                                          top
    stackPush(&last, p);
                                                    5
                                                       5
    stackPush(&first, p+1);
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                                                       4
               a,p b
                                                       3
                   5
```

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                                                       4
                p a,b
                                                       3
             3
```

```
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                                                       4
                p a,b
                                                       3
             3
```

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                                                       4
                p a,b
                                                       3
             3
```

```
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                                                       4
                p a,b
                                                       3
             3
```

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                                                       3
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                                                       3
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                                                       3
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                                                         top
               b,p
                                                       3
            3
```

```
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                                                         top
            3
```

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            3
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                                                         top
            3
```

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                                                         top
            3
```

```
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    stackPush(&first, p+1);
    stackPush(&last, b);
                                                   3
                                                         top
            3
```

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    stackPush(&last, p);
    stackPush(&first, p+1);
                                                         top
    stackPush(&last, b);
                                                    3
                                                       3
            b
            3
```

```
void sort (Tab t) {
                                                 14
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    stackPush(&first, p+1);
                                                         top
    stackPush(&last, b);
                                                       3
                                                    3
            3
```

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    stackPush(&last, p);
    stackPush(&first, p+1);
                                                         top
    stackPush(&last, b);
                                                       3
          p a,b
            3
```

```
void sort (Tab t) {
                                                 14
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                                                         top
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            3
```

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            3
```

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            3
```

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                                                 14
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                                                         top
            3
```

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                                                         top
```

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                                                         top
```

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      a,p b
                                                         top
```

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      a,p b
                                                         top
```

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                                                         top
      a,p b
```

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                                                         top
    stackPush(&last, b);
      a,p b
```

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    stackPush(&last, p);
    stackPush(&first, p+1);
                                                         top
    stackPush(&last, b);
                                                       2
      a,p b
```

```
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    stackPush(&last, p);
    stackPush(&first, p+1);
                                                         top
    stackPush(&last, b);
       p a,b
            3
```

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uint p, a, b;
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Stack first = stackNew(t.len);
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stackPush(&first, 0);
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