```
0 1 2 3 4 5
9 2 7 0 4 6
```

```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j >= 0) && (a[j] > key)) {
            a[j + 1] = a[j];
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```
012345927046
```

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size = 6
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i = 3
i = 0
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size = 6
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0 1 2 3 4 5
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```

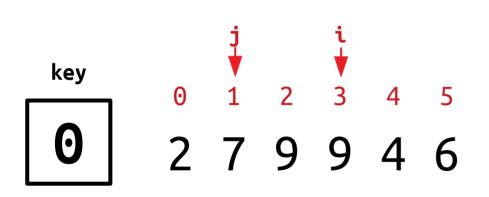
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void insertionSort(int a*, int size) {
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size = 6
i = 3
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0 1 2 3 4 5
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size = 6
i = 3
i = 1
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size = 6
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0 1 2 3 4 5
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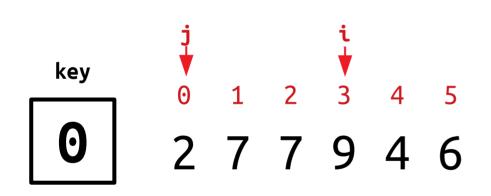
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```
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```

```
size = 6
i = 3
i = 0
```



```
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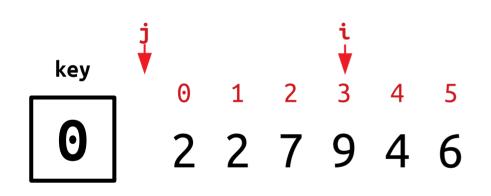
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0 1 2 3 4 5
2 2 7 9 4 6
```

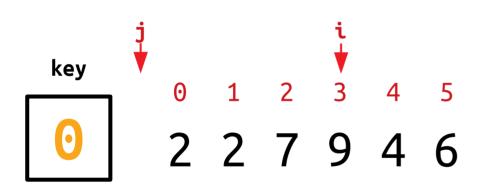
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```

```
size = 6
i = 3
i = -1
```



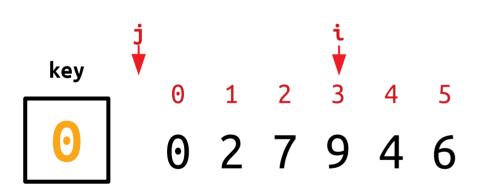
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```
key

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0 2 7 9 4 6
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```

```
size = 0
i = 4
i = 3
```

```
key
0 1 2 3 4 5
0 2 7 9 9 6
```

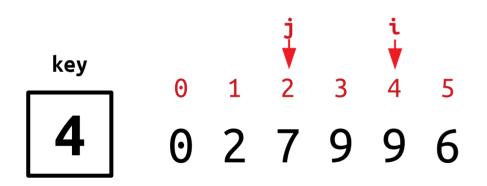
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```

```
size = 6
i = 4
i = 2
```



```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
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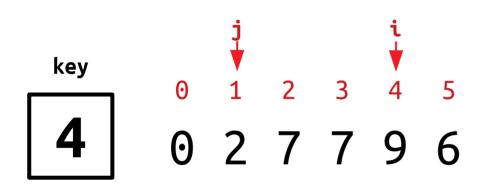
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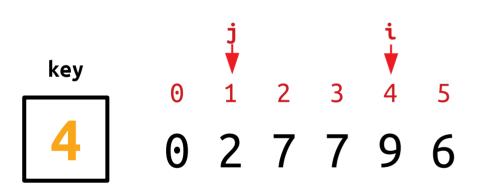
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    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j \ge 0) \&\& (a[j] > key)) {
            a[i + 1] = a[i]:
            j--;
        a[j + 1] = key;
```

```
size = 6
i = 4
i = 1
```



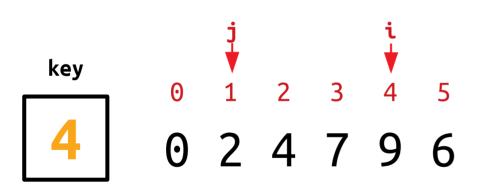
```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j >= 0) & (a[j] > key)
            a[j + 1] = a[j];
        a[j + 1] = key;
```

```
size = (
i = 4
i = 1
```



```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j \ge 0) \&\& (a[j] > key)) {
            a[j + 1] = a[j];
        a[j + 1] = key;
```

```
size = (
i = 4
i = 1
```



```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j >= 0) && (a[j] > key)) {
            a[j + 1] = a[j];
        a[j + 1] = key;
```

```
size = 6
i = 4
i = 1
```

```
key
0 1 2 3 4 5
0 2 4 7 9 6
```

```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j >= 0) && (a[j] > key)) {
            a[j + 1] = a[j];
        a[j + 1] = key;
```

```
size = 6
i = 5
j = 1
```

```
key
0 1 2 3 4 5
0 2 4 7 9 6
```

```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        ] = 1 - 1;
        while ((j >= 0) && (a[j] > key)) {
            a[j + 1] = a[j];
        a[j + 1] = key;
```

```
size = (
i = 5
i = 1
```

```
6 0 1 2 3 4 5
0 2 4 7 9 6
```

```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        kev = a[i]:
        j = i - 1;
        while ((j \ge 0) \&\& (a[j] > key)) {
            a[j + 1] = a[j];
        a[j + 1] = key;
```

```
size = (
i = 5
i = 4
```

```
6 0 1 2 3 4 5
0 2 4 7 9 6
```

```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j >= 0) && (a[j] > key)) {
            a[j + 1] = a[j];
        a[j + 1] = key;
```

```
size = (
i = 5
i = 4
```

```
6 0 1 2 3 4 5
0 2 4 7 9 6
```

```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j >= 0) && (a[j] > key)) {
            a[j + 1] = a[j];
            ]--;
        a[j + 1] = key;
```

```
size = 6
i = 5
i = 4
```

```
6 0 1 2 3 4 5
0 2 4 7 9 9
```

```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j >= 0) && (a[j] > key)) {
            a[j + 1] = a[j];
            ]--;
        a[j + 1] = key;
```

```
size = 6
i = 5
i = 4
```

```
6 0 1 2 3 4 5
0 2 4 7 9 9
```

```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j \ge 0) \&\& (a[j] > key)) {
            a[i + 1] = a[i]:
            j--;
        a[j + 1] = key;
```

```
size = (
i = 5
i = 3
```

```
6 0 1 2 3 4 5 9 9
```

```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j >= 0) && (a[j] > key)) {
            a[j + 1] = a[j];
        a[j + 1] = key;
```

```
size = (
i = 5
i = 3
```

```
key

0 1 2 3 4 5

0 2 4 7 9 9
```

```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j >= 0) && (a[j] > key)) {
            a[j + 1] = a[j];
        a[j + 1] = key;
```

```
size = (
i = 5
i = 3
```

```
key

0 1 2 3 4 5

0 2 4 7 7 9
```

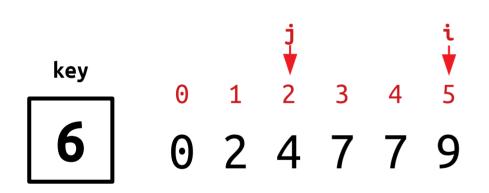
```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j >= 0) && (a[j] > key)) {
            a[j + 1] = a[j];
        a[j + 1] = key;
```

```
size = (
i = 5
i = 3
```

```
key
0 1 2 3 4 5
0 2 4 7 7 9
```

```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j >= 0) && (a[j] > key)) {
        a[j + 1] = key;
```

```
size = (
i = 5
i = 2
```



```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j >= 0) & (a[j] > key)
            a[j + 1] = a[j];
        a[j + 1] = key;
```

```
size = (
i = 5
i = 2
```

```
key

0 1 2 3 4 5

0 2 4 7 7 9
```

```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j >= 0) && (a[j] > key)) {
            a[j + 1] = a[j];
        a[j + 1] = key;
```

```
size = (
i = 5
i = 2
```

```
key

0 1 2 3 4 5

0 2 4 6 7 9
```

```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j >= 0) && (a[j] > key)) {
            a[j + 1] = a[j];
        a[j + 1] = key;
```

```
size = (
i = 5
i = 2
```

```
0 1 2 3 4 5
0 2 4 6 7 9
Ordered!
```

```
void insertionSort(int a*, int size) {
    int i, j, key;
    for (i = 1 ; i < size ; i++) {</pre>
        key = a[i];
        j = i - 1;
        while ((j >= 0) && (a[j] > key)) {
            a[j + 1] = a[j];
        a[j + 1] = key;
```