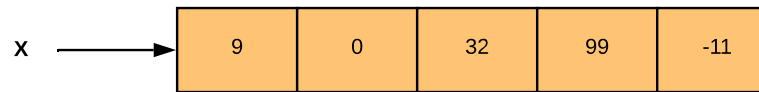


EU2 - En serie bilder som visar hur en mängd sorteras.

Pseudokod

n is the number of elements in X

```
sort ( n, X )
{
  i = 1
  while i < n
  {
    j = i + 1
    while j ≤ n
    {
      if (xj < xi)
        swap xj with xi
      j++
    }
    i++
  }
}
```



Iteration 1 (outer loop)

i = 1

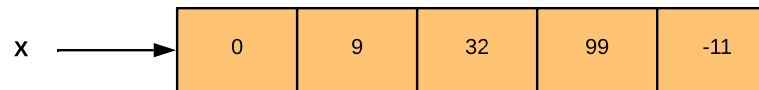
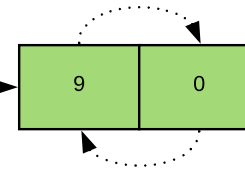
Iteration 1 (inner loop)

j = 2



0 < 9? :
true

→ Swap places →



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Pseudokod

n is the number of elements in X

```
sort ( n, X )
{
  i = 1
  while i < n
  {
    j = i + 1
    while j ≤ n
    {
      if (xj < xi)
        swap xj with xi
      j++
    }
    i++
  }
}
```

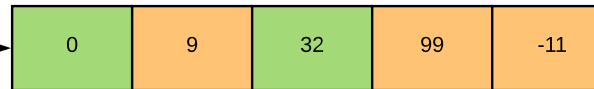
Iteration 1 (outer loop)

i = 1

Iteration 2 (inner loop)

j = 3

x

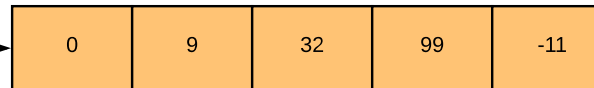


32 < 0? :

false

→ Do nothing

x



EU2 - En serie bilder som visar hur en mängd sorteras.

Pseudokod

n is the number of elements in X

sort (n, X)

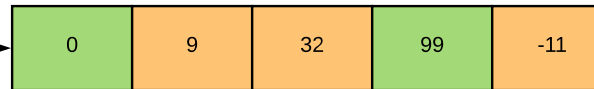
```
{  
  i = 1  
  while i < n  
  {  
    j = i + 1  
    while j ≤ n  
    {  
      if (xj < xi)  
        swap xj with xi  
      j++  
    }  
    i++  
  }  
}
```

Iteration 1 (outer loop)
i = 1

Iteration 3 (inner loop)

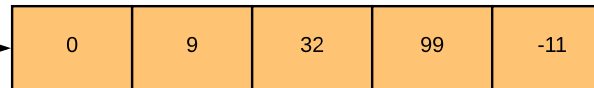
j = 4

x



99 < 0? :
false → Do nothing

x



EU2 - En serie bilder som visar hur en mängd sorteras.

Pseudokod

n is the number of elements in X

sort (n, X)

{

 i = 1

while i < n

 {

 j = i + 1

while j ≤ n

 {

 if (xj < xi)

 swap xj with xi

 j++

 }

 i++

 }

}

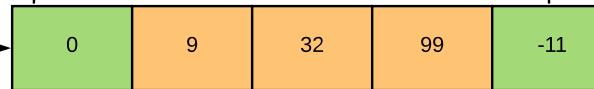
Iteration 1 (outer loop)

i = 1

Iteration 4 (inner loop)

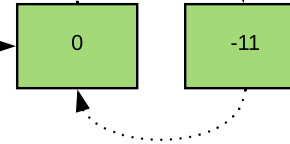
j = 5

x

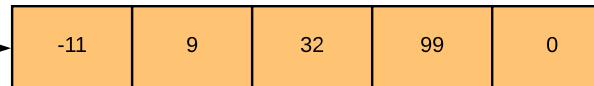


-11 < 0? :
true

Swap places



x



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Pseudokod

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sort (n, X)

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 i = 1

 while i < n

 {

 j = i + 1

 while j ≤ n

 {

 if (x_j < x_i)

 swap x_j with x_i

 j++

 }

 i++

 }

}

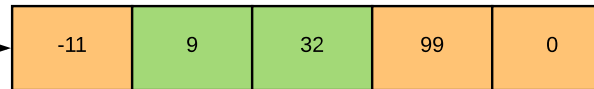
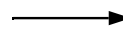
Iteration 2 (outer loop)

i = 2

Iteration 1 (inner loop)

j = 3

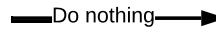
x



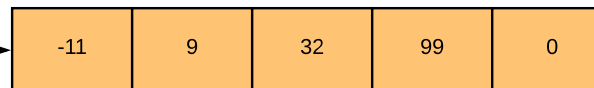
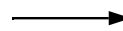
32 < 9? :

false

Do nothing



x



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Pseudokod

n is the number of elements in X

sort (n, X)

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 i = 1

while i < n

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 j = i + 1

while j ≤ n

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 swap x_j with x_i

 j++

 }

 i++

 }

}

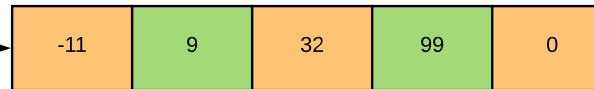
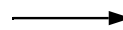
Iteration 2 (outer loop)

i = 2

Iteration 3 (inner loop)

j = 4

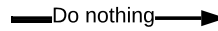
x



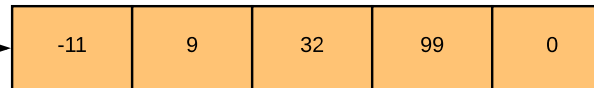
99 < 9? :

false

Do nothing



x



EU2 - En serie bilder som visar hur en mängd sorteras.

Pseudokod

n is the number of elements in X

sort (n, X)

{

 i = 1

 while i < n

 {

 j = i + 1

 while j ≤ n

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 swap x_j with x_i

 j++

 }

 i++

 }

}

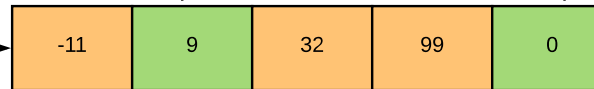
Iteration 2 (outer loop)

i = 2

Iteration 4 (inner loop)

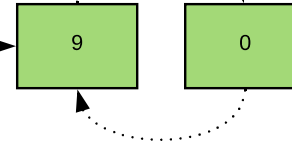
j = 5

x

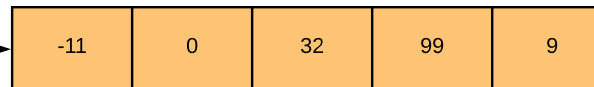


0 < 9? :
true

Swap places



x



EU2 - En serie bilder som visar hur en mängd sorteras.

Pseudokod

n is the number of elements in X

sort (n, X)

```
{  
  i = 1  
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    j = i + 1  
    while j ≤ n  
    {  
      if (xj < xi)  
        swap xj with xi  
      j++  
    }  
    i++  
  }  
}
```

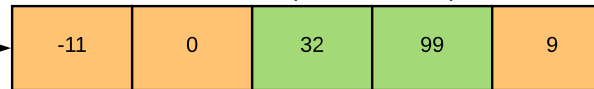
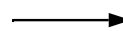
Iteration 3 (outer loop)

i = 3

Iteration 1 (inner loop)

j = 4

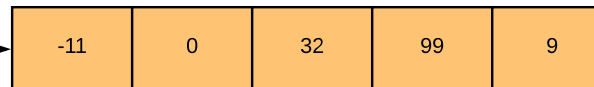
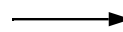
x



99 < 32? :
false

Do nothing →

x



EU2 - En serie bilder som visar hur en mängd sorteras.

Pseudokod

n is the number of elements in X

sort (n, X)

{

 i = 1

 while i < n

 {

 j = i + 1

 while j ≤ n

 {

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 swap x_j with x_i

 j++

 }

 i++

 }

}

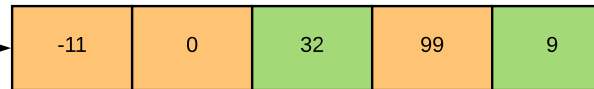
Iteration 3 (outer loop)

i = 3

Iteration 2 (inner loop)

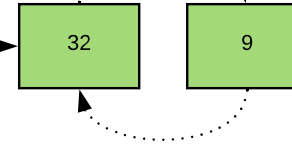
j = 5

x

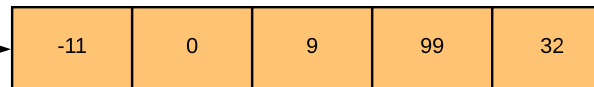


9 < 32? :
true

Swap places



x

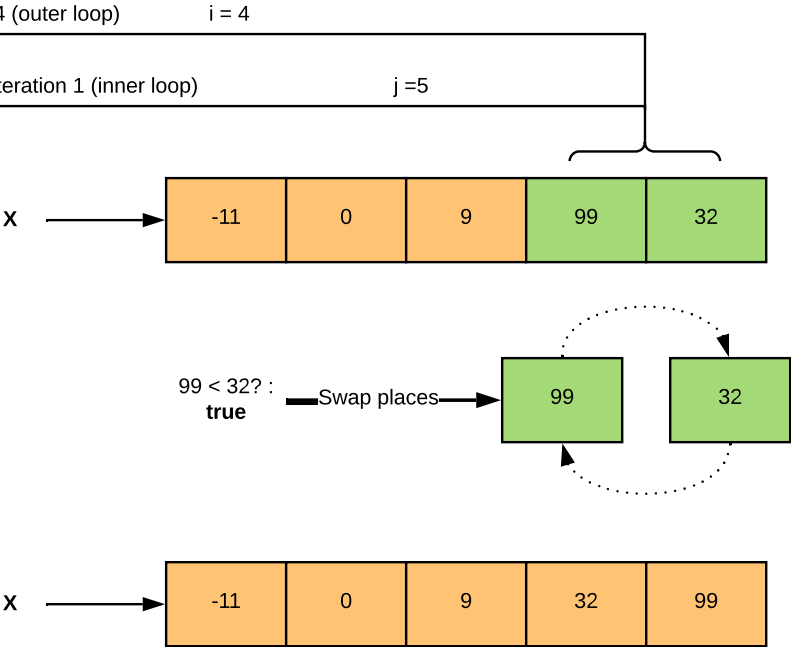


EU2 - En serie bilder som visar hur en mängd sorteras.

Psuedokod

n is the number of elements in X

sort (n, X)
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 i = 1
 while i < n
 {
 j = i + 1
 while j ≤ n
 {
 if (xj < xi)
 swap xj with xi
 j++
 }
 i++
 }
}



End outer loop