

Insertionsort

Computational effort

Best Case	Worst Case
$O(n)$	$O(n^2)$

WORST CASE: the array is sorted reversely (= ordered from largest to smallest element)

BEST CASE: the array is already sorted (= ordered from smallest to largest element)

Pseudocode

Insertionsort

```
begin
  for i := 2 to n do
    begin
      j := i;
      t := a[i];
      k := a[i].key;
      while a[j-1].key > k do
        begin
          a[j] = a[j-1];
          j := j-1;
        end
      a[j] := t;
    end
  end
end
```