|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **1** | **2** | **3** | **4** | **5** |
|  | 5 | 1 | 2 | 3 | 7 |
|  | 1 | 5 | 2 | 3 | 7 |
|  | 1 | 2 | 5 | 3 | 7 |
|  | 1 | 2 | 3 | 5 | 7 |
|  |  |  |  |  |  |

i = 1, j = 2

i = 2, j = 3

i = 3, j = 4

i = 4, j = 5

1. n = 5

X = {5, 1, 2, 3, 7}

T(n) = n(n - 1) = n2 - n

2 2

Θ ∈ n2

bästa fall: Θ ∈ 0

värsta fall: Θ ∈ n2

genomsnittsfall (0.5): Θ ∈ n2

1. Urvalsortering

Byten vid jämna T(n) = (n/2) + 1

Byten vid ojämna T(n) = n

Jämförelser T(n) = n

Exchangesort

Selectionsort

Funktionalitet

comparison

Worst case timecomplexity