A[1..N] $n = k \times a$

dividere A in $A_1, A_2 \dots A_k$: $i < j \Rightarrow A_i < A_j \ \forall x \in A_i, \forall x \in A_j$

```
SUDDIVIDI(A[1..N], k, a, i)
  IF |A| = a  return
  x = SELECT(A, a);
  % COMPONI A_i
  A_i = {∀y ∈ A : y ≤ x}
  SUDDIVIDI(A - A_i, k, a, i++)
```

$$T(n) = \begin{cases} c & \text{se } |A| = a \text{ e } k = 1 \\ \cdot \Theta(n \log n) + c + T(n) \end{cases}$$

```
DIVIDI(A[1..N], k)
  if K = 1 then return A
  else
    a = |A| / k
    RANGO = SELECT(A, a)
    A_1 := {x ∈ A : x ≤ RANGO}
    A_2 := {x ∈ A : x > RANGO}
    return (A_1, DIVIDI(A_2, k-1, i))
```

$$T(n) = \begin{cases} c & \text{se } k = 1 \\ \cdot \Theta(n \log n) + 2\Theta(n) + T(n) \end{cases}$$

{1, 2, 3, 4, 5, 6, 7, 8}

$a = 2 \quad k = 4$

1, 2

$k = 4, i = 1$

$a = 2$

(1, 2)

(3, 4, 5, 6, 7, 8) $k = 4$