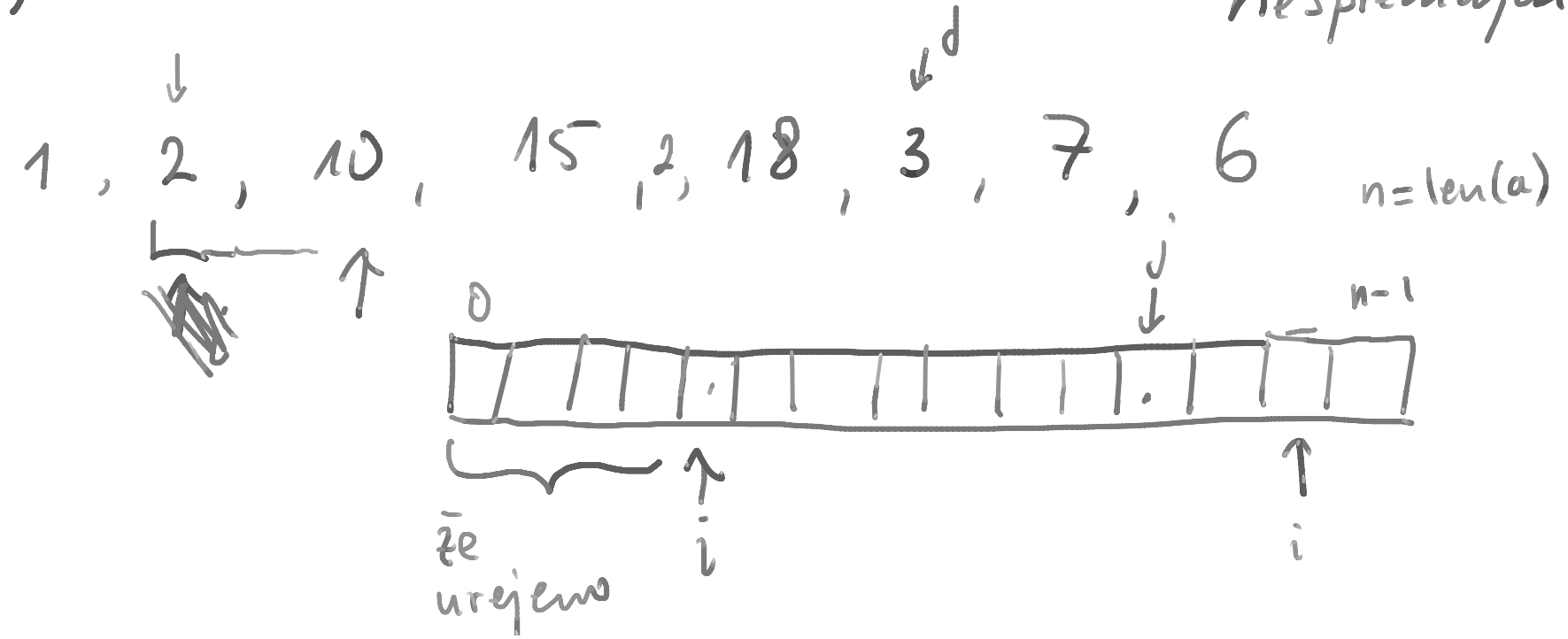
Urejanje

Naloga: Uredi podatke v dani tabeli a

primerjiri: števila ←
string

1) Urejanje na mestu: podatke v a preuredimo

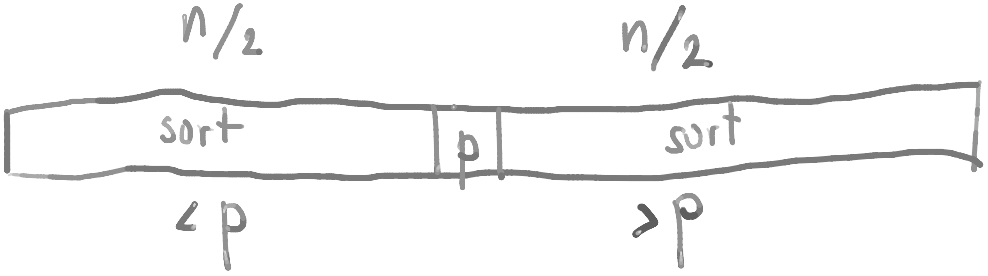
2) Naredimo novo, urejeno tabelo b, a pustimo nespremenjen



Časovna zahtevnost

Urejanje z izbiranjem je $\mathcal{O}(n^2)$
v vsakem primeru (ne glede na podatke v tabeli)

Hitro urejanje

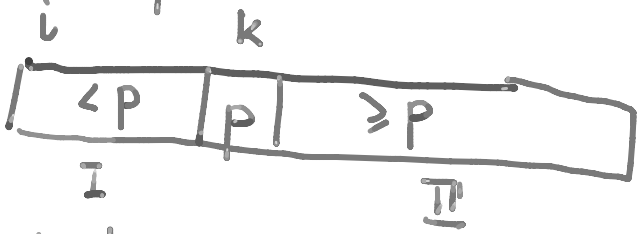


$C \cdot n^2$

$C\left(\frac{n}{2}\right)^2 + C\left(\frac{n}{2}\right)^2 = \frac{C n^2}{2}$ 50%

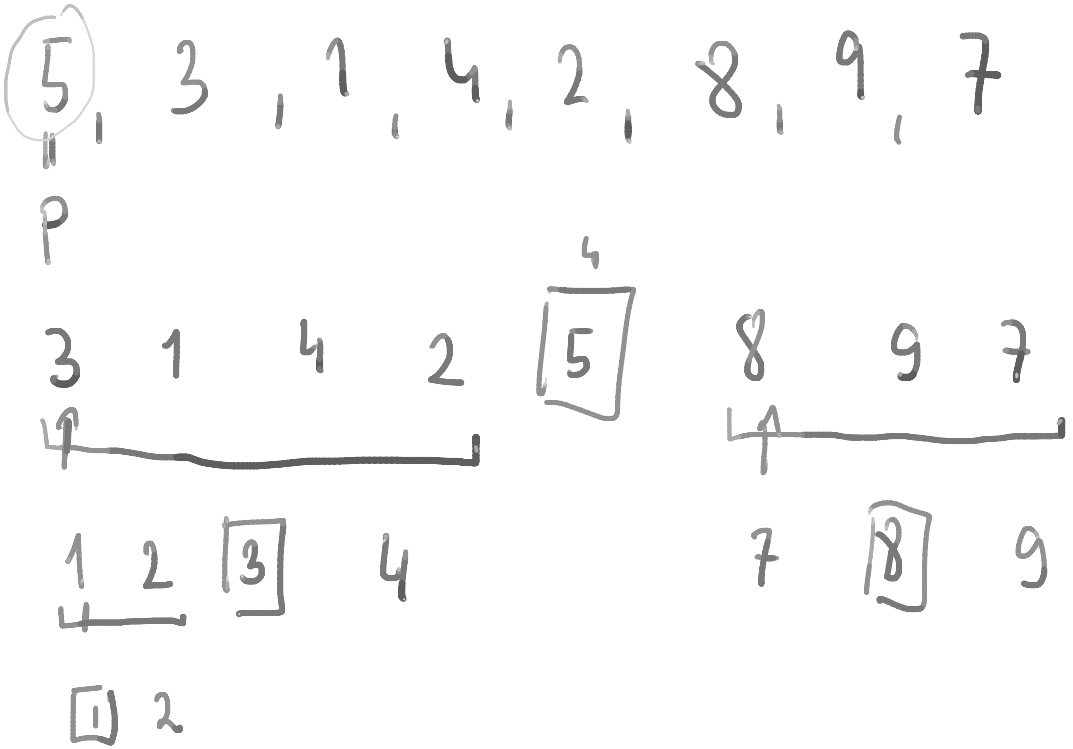
1) Izberemo element p (pivot)
2) Tabelo preuredimo v obliko
3) podtabeli I in II uredimo na enak način.

premeci

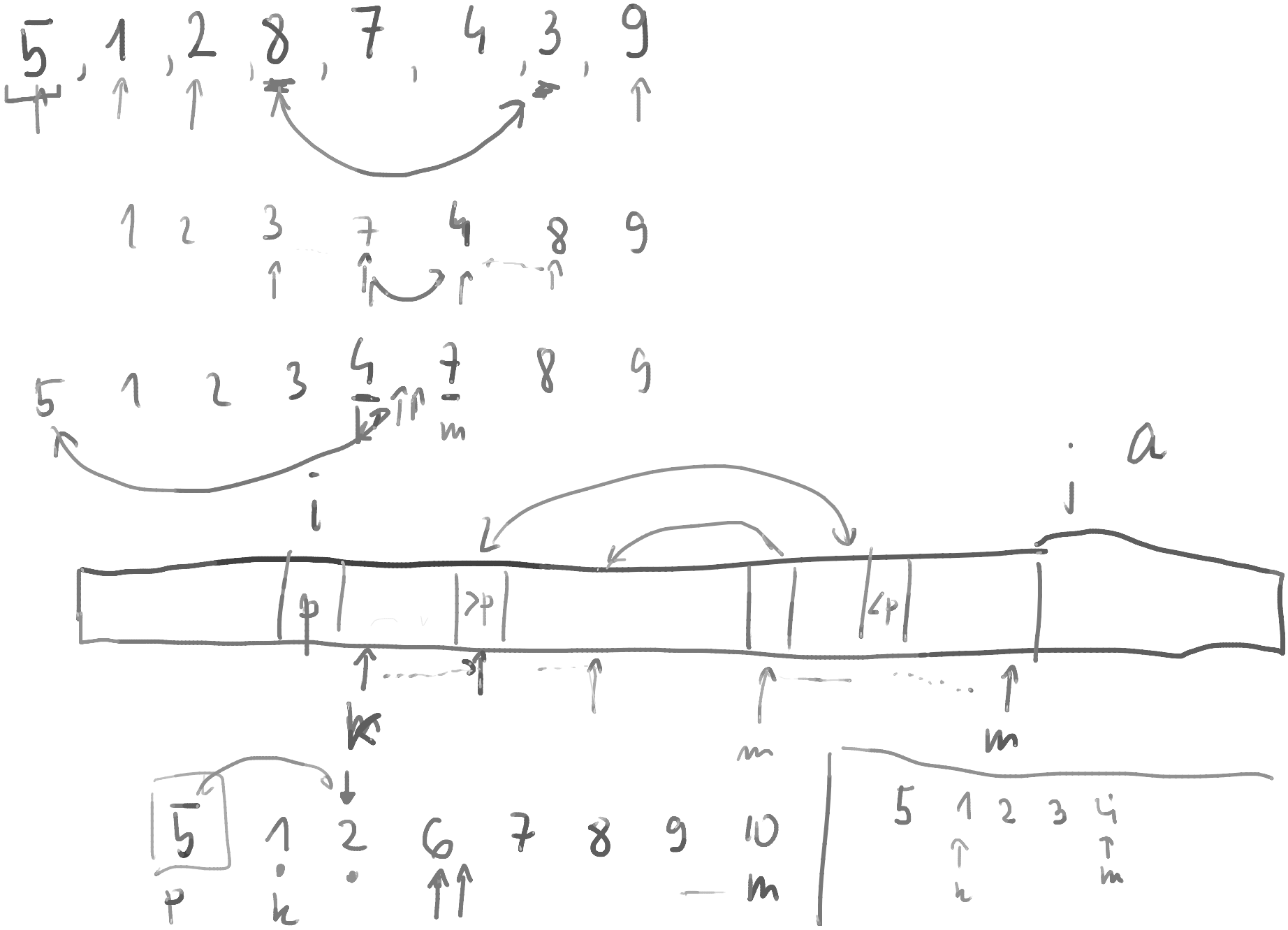


$\frac{n^2}{9} + \frac{4n^2}{9} = \frac{5n^2}{9}$ 55.555%

Hitro urejanje - primer



Premeči podtabelo



Študente skrbi, ali dela prav