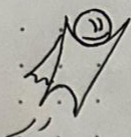


23.11.23



## JUMP SEARCH



- Ainult sorteeritud listi korral
- Idee on kontrollida vähem elemente, jättes mõned elemendid vahele. See tähendab, et ei kontrollida üks-haaval. Vaid minnakse kohe nt sammuga 5 edasi ja kontrollitakse kas sellel indeksil on arv suurem kui otsitav. Lõpuks leitakse mingi vahemik, millel teostatakse lineaarotsingut.

- Samm tavaliselt  $\sqrt{\text{array length}}$

### PSEUDO-KOOD:

```
function jump search (array, target):
```

```
    n = length of array
```

```
    step = sqrt(n)
```

```
    previous = 0
```

```
    while (arr[min(step, n) - 1] < target):
```

```
        previous = step
```

```
        step += sqrt(n)
```

```
    if previous >= n:
```

```
        return "This n does not exist in array"
```

```
    for i from previous to min(step, n):
```

```
        if arr[i] == target:
```

```
            return "This n exists in array"
```

```
    return "This n does not exist in array"
```