# blueprint

```
main {                controller {          process              output
  input                 korpu               (service)            (db, file, in-memory)
  -                   main <-> service
  output                  }
  -
  Exhandling
  }
```
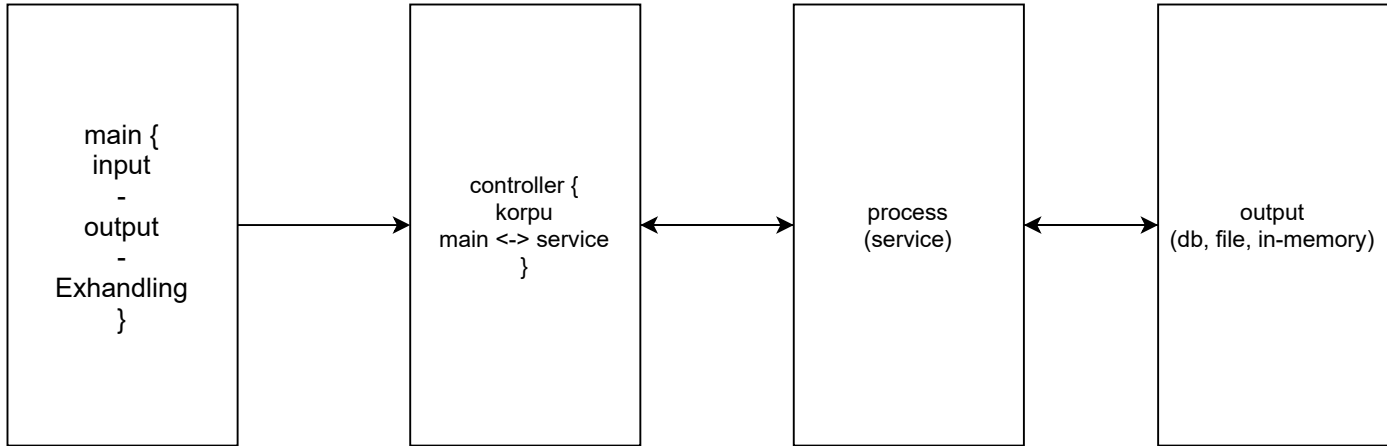
# DAO - data access object

[1992816278, 711328259, -1091051565, 717786770, 775787299, -484228061, 1995382842, 922373743, -657245522, 1904621558]

length = n          notation          the worst → O(max(n)) = n

the best → Ω(max(n)) = n

the worst ⟶ O(find(n)) = n

1992816278

the best ⟶ Ω(find(n)) = 1

**linear search**

$10^{12} \longrightarrow$   O(find($10^{12}$)) = $10^{12}$

4 GHz $\longrightarrow$ 4*$10^9$ GHz

1 sec $\longrightarrow$ 4*$10^9$

250 sec = 4.2 min

X sec $\longrightarrow$ $10^{12}$