MUHAMMAD GALUH GUMELAR

J0403221017

1. Sekuensial search

Data = [17, 83, 37, 6, 10, 82, 5, 11, 1]

index 0 1 2 3 4 5 6 7 8

data = 17 83 37 6 10 82 5 11 1

cari posisi (index): x = 37

cek data[0]=17 != x bukan

cek data[1]=83 != x

cek data[2]=37 == x ----> 2

2. Binary search

Data = [17, 83, 37, 6, 10, 82, 5, 11, 1]

q k

Index = 0 1 2 3 4 5 6 7 8

Data = [1, 5, 6, 10, 11, 17, 37, 82, 83]

PUTARAN 1

q t k

Index 0 1 2 3 4 5 6 7 8

Data 1 5 6 10 11 17 37 82 83

x = 37

q=0, k=8, t=(q+k)//2 = (0+8)//2 = 4

cek data tengah data[t]=data[4]= 11!= x

karena x > data tengah, pencarian fokus ke bagian kanan

q=5 , k=8

PUTARAN 2

q t k

indx 5 6 7 8

data 17 37 82 83

t = 6

data tengah = data[6]=37 == x -----> 6

x=37

q=0,k=8,t=4--->data[t]=11 bukan, x lebih besar, fokus ke kanan

q=t+1=5,k=8,t=6; data[t]=37