xel="styleshee"

Lel="alternate" type="fext|javascript"

Language="javascript" type="fext|javascript"

Language="javascript" type="fext|javascript"

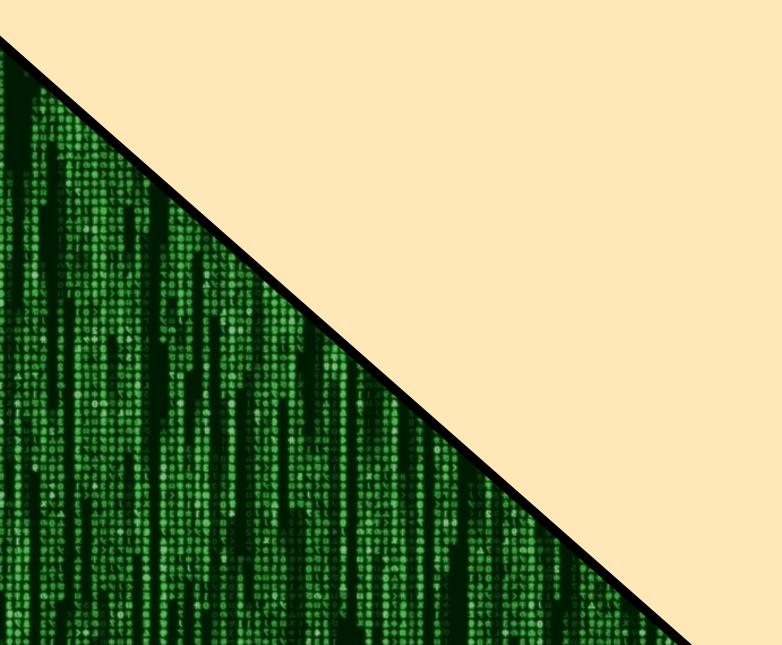
Language="javascript" type="fext|javascript"

Lype="fext|javascript"

Lyp

Longest Growing / Common Huffman

Seminar 10.



It's Hoffman, babe

Definition

- Alphabet of **symbols** $A = \{a_1, \dots, a_n\}$
- Each symbol's **weight** $W = \{w_1, \dots, w_n\}$
- Each symbol's binary **code** $C = \{c_1, \dots, c_n\}$

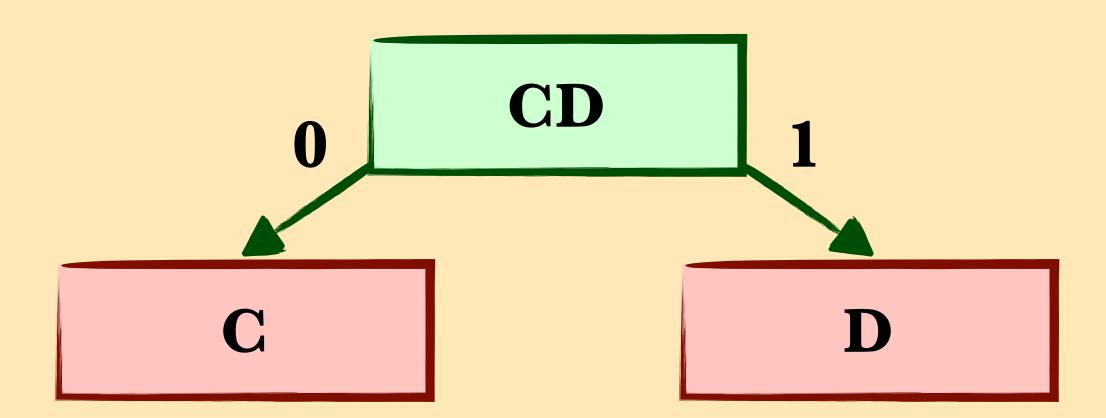
'ABRACADABRA' \longrightarrow Alphabet $A = \{A,B,R,C,D\}$

equals to the number of repetitions in text

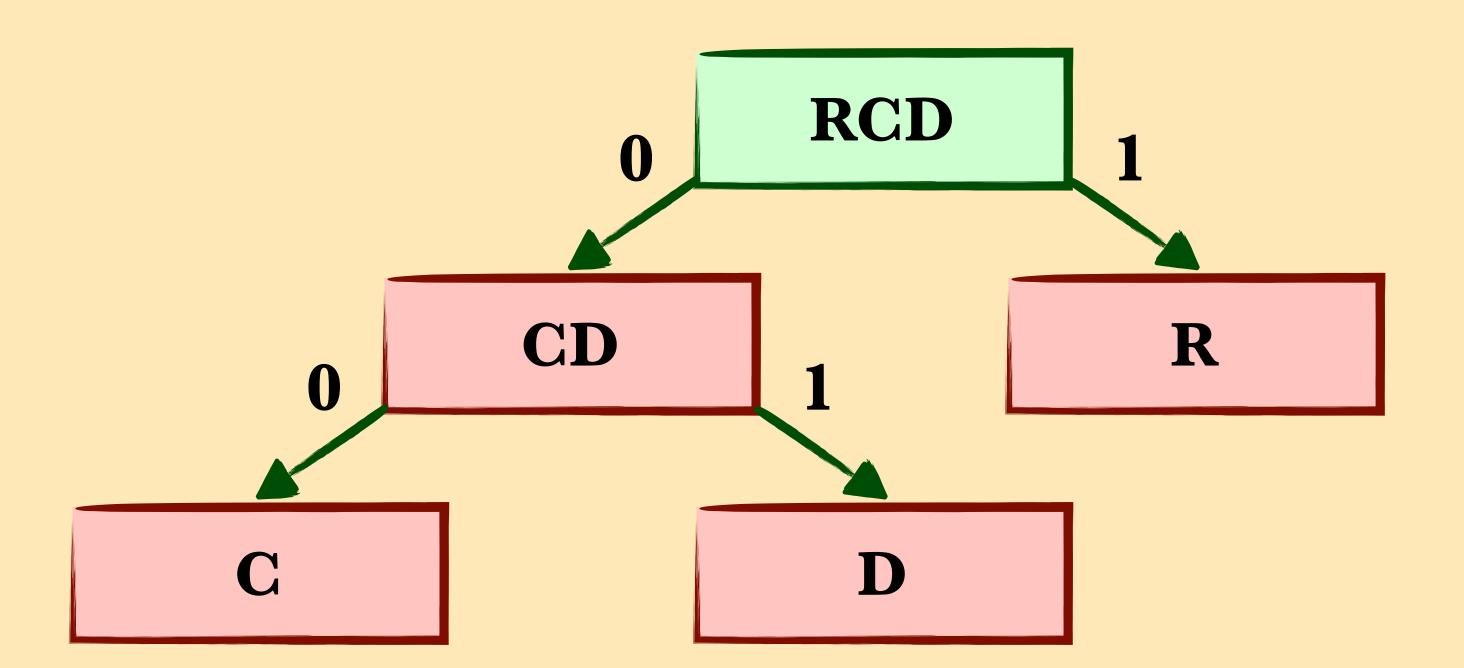
Weights $W = \{5,2,2,1,1\}$

```
{A,B,R,C,D}
{5,2,2,1,1}
```

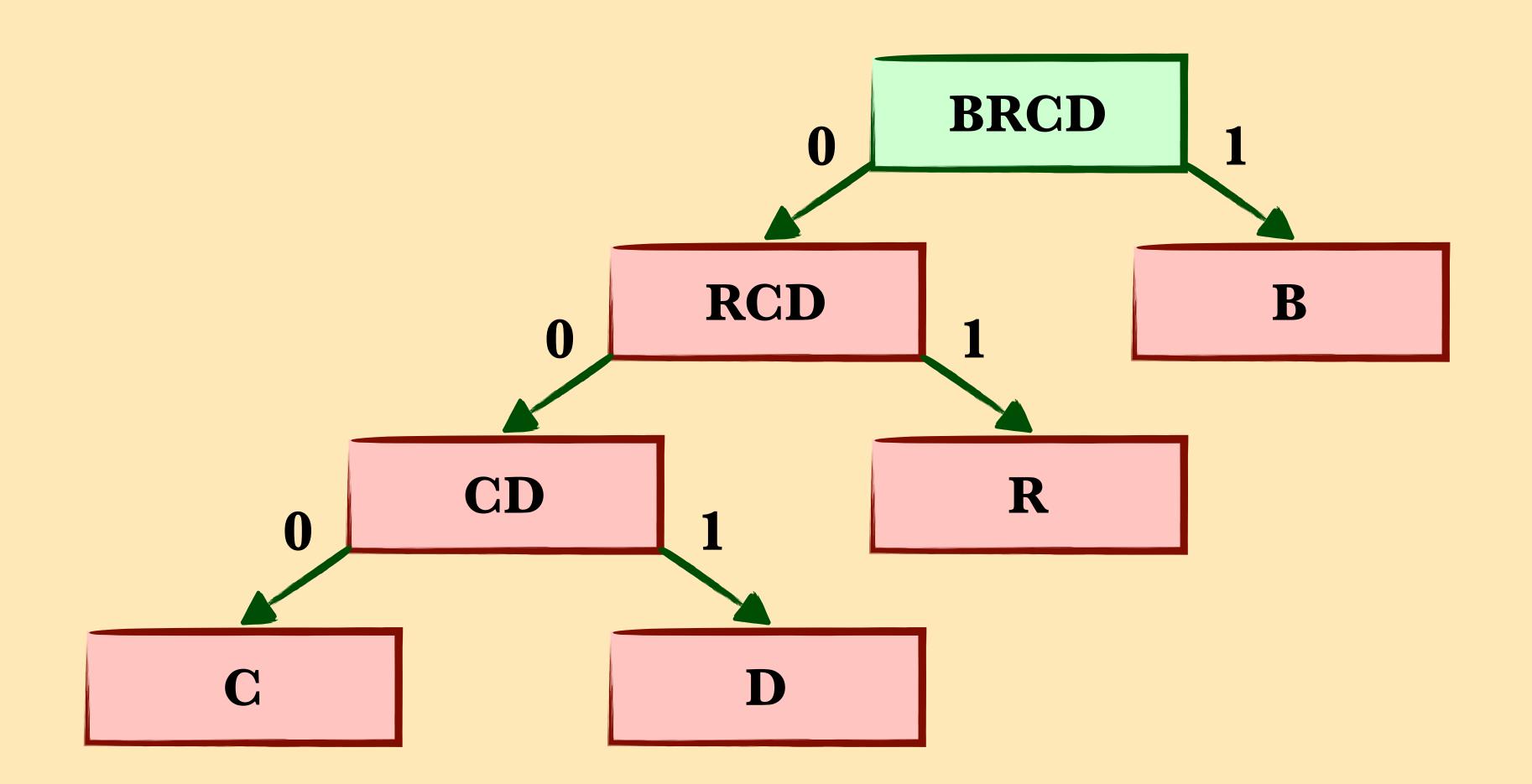
```
{A,B,R,CD}
{5, 2,2, 2}
```



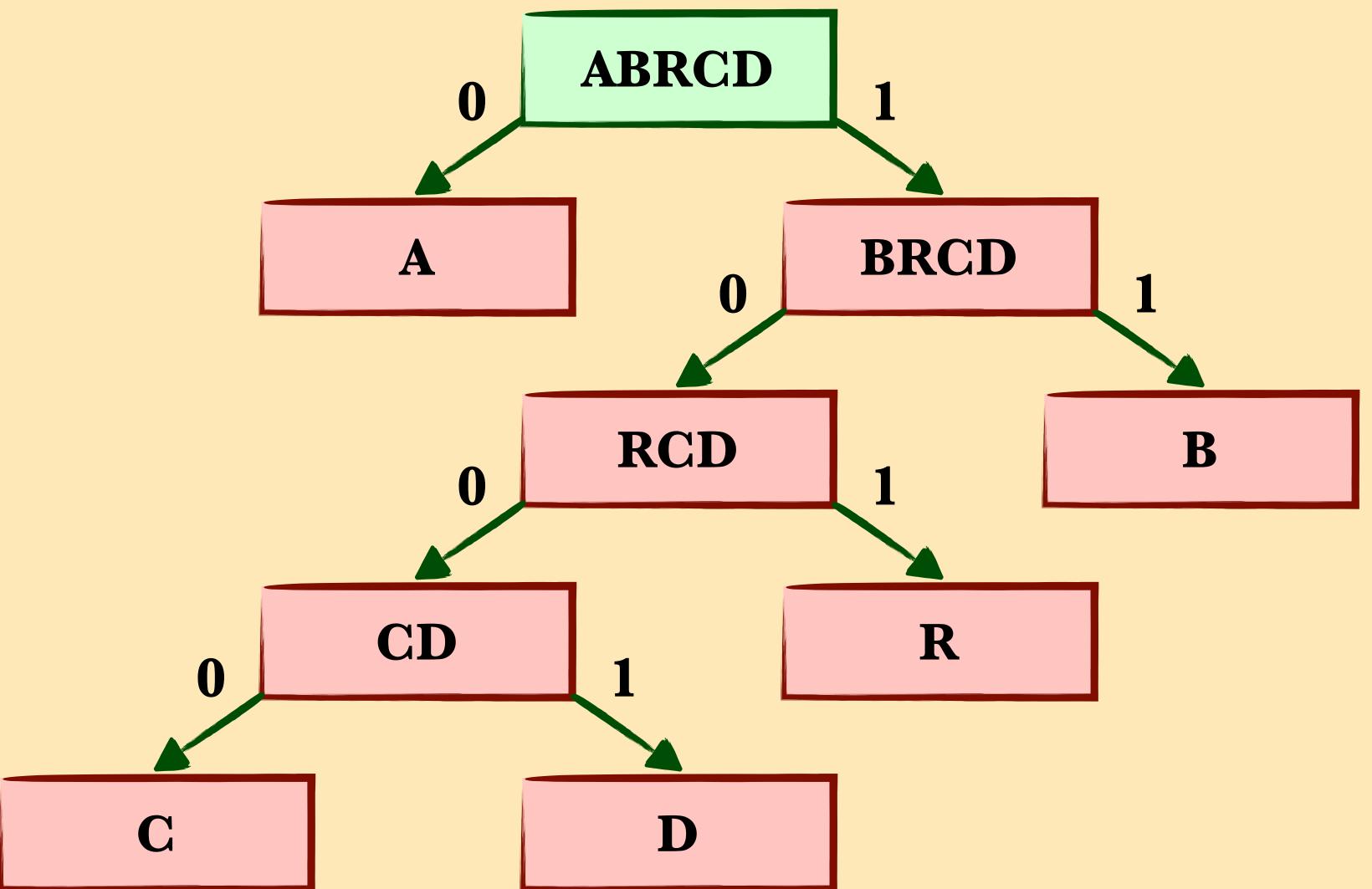
```
{A,B,RCD}
{5, 2, 4}
```

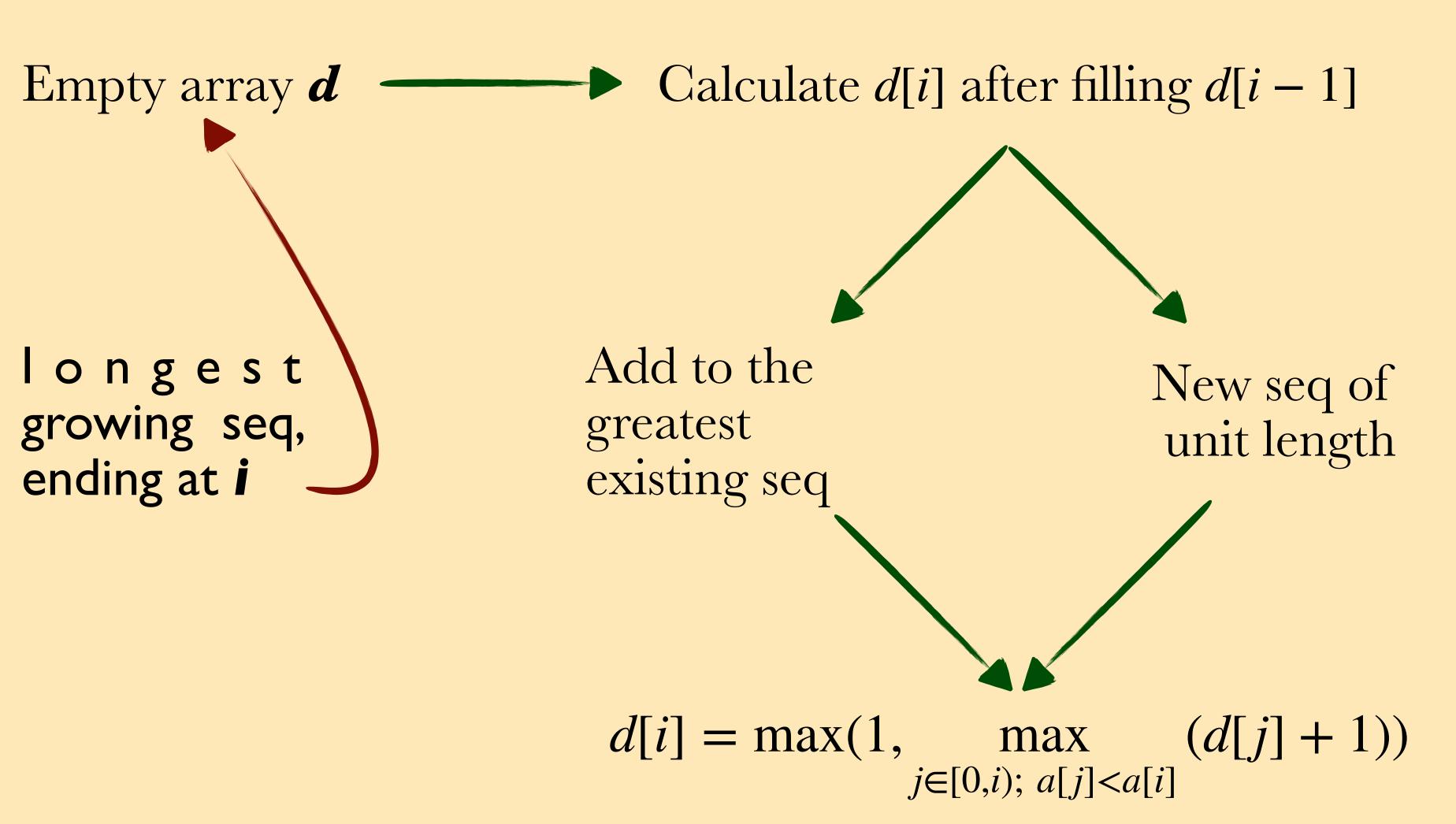


```
{A,BRCD}
{5, 6}
```

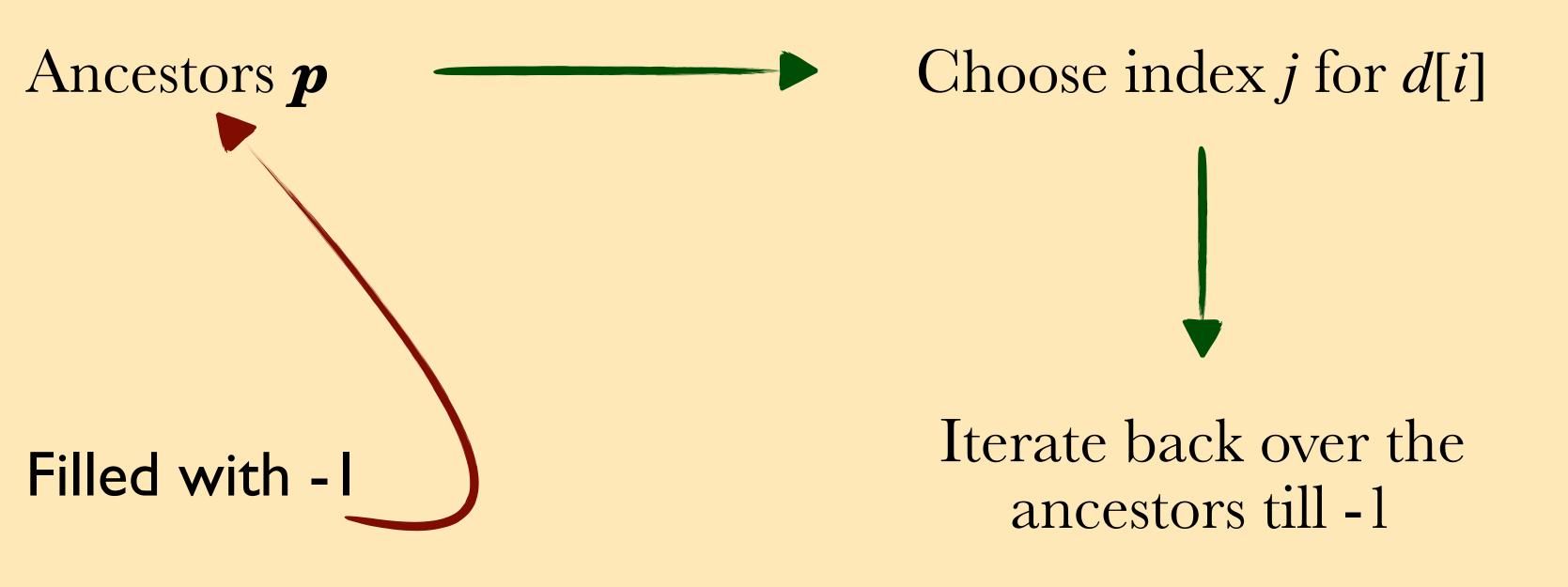


{**ABRCD**}
{11}

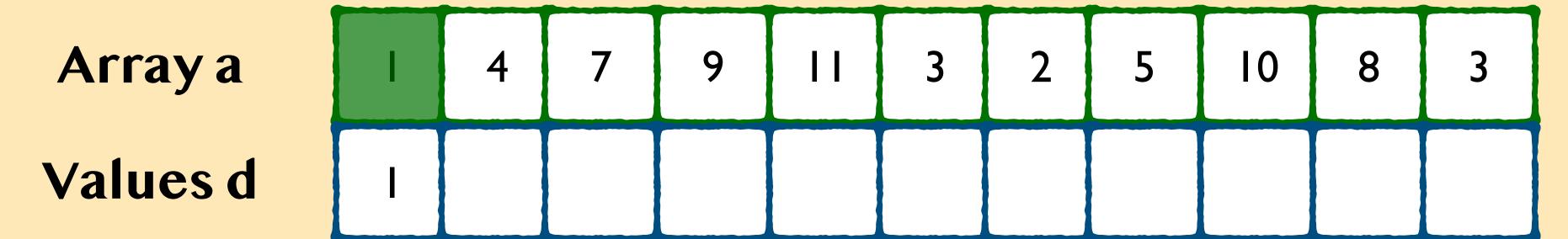




Greatest growing sequence getting the seq



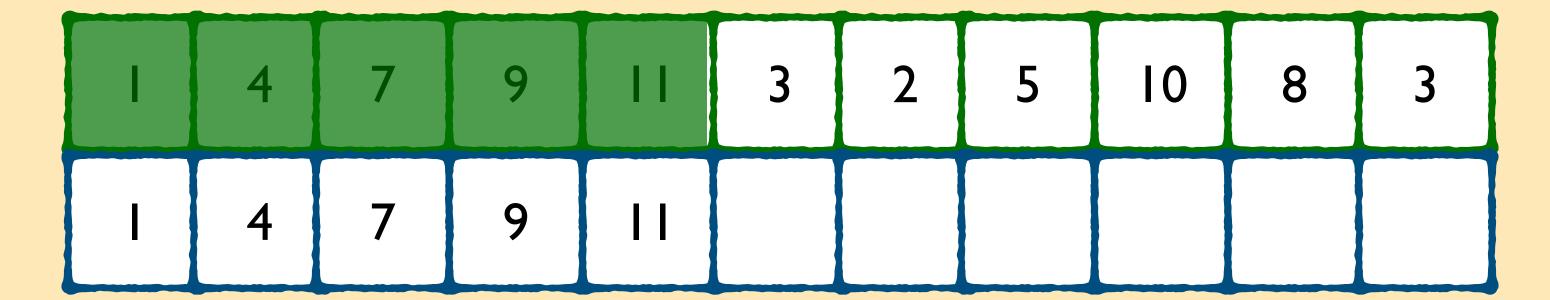
nlogn algo



nlogn algo

Array a

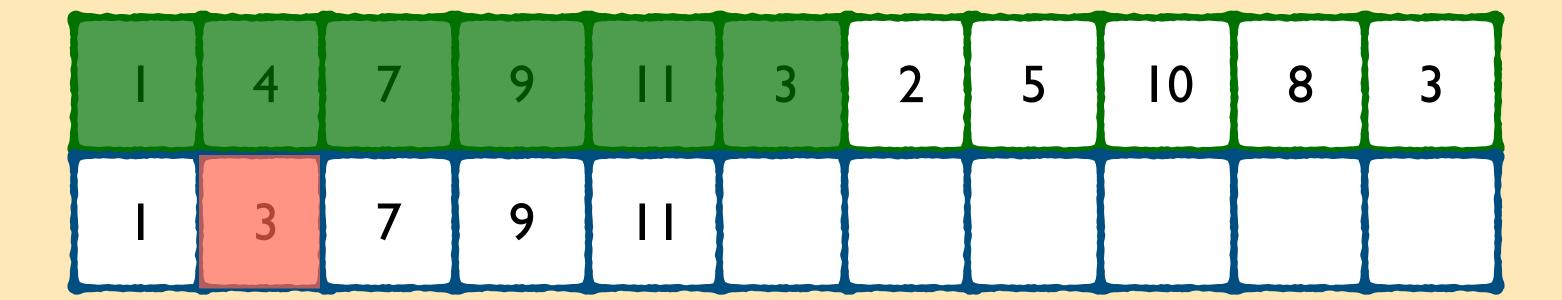
Values d



nlogn algo

Array a

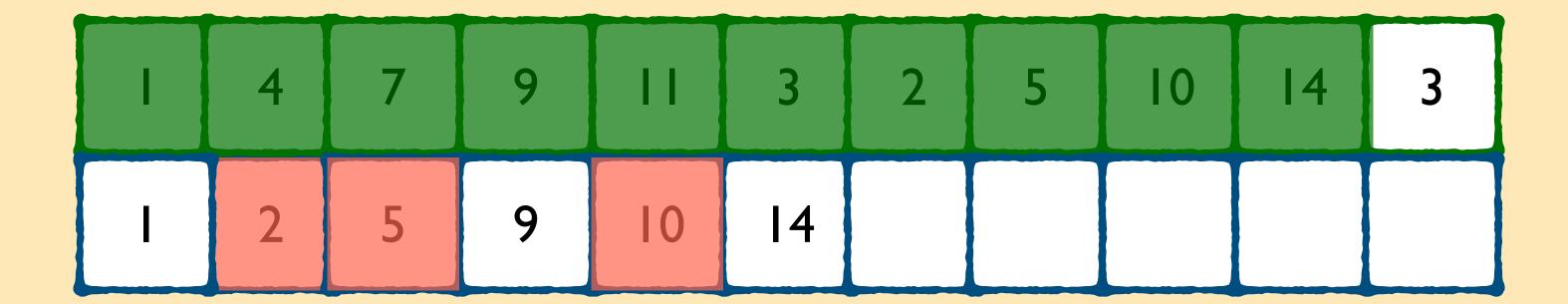
Values d



nlogn algo

Array a

Values d



Greatest common sequence

		Н	Α	R	В	0	U	R
	0	0	0	0	0	0	0	0
Н	0	1 4	1	1	1	1	1	1
Α	0	1	12	2	2	2	2	2
В	0	1	2	2	3	3	3	3
R	0	1	2	3	3	3	3	4
Α	0	1	2	3	3	3	3	4
Н	0	1	2	3	3	3	3	4
Α	0	1	2	3	3	3	3	4
В	0	1	2	3	١4,	4	4	4
R	0	1	2	3	4	4	4	- 5