

$7 = 000 \underline{111}$
 $4 = 000 100$
 $14 = 001 110$
 $13 = 001 101$
 $2 = 000 010$
 $16 = 010000$
 $18 = 010010$
 $9 = 00100 \underline{1}$

I

∞	01	10	11
2	2	3	1

2 4 7 8

0	1	2	3	4	5	6	7
4	16	13	9	14	2	18	7

II

∞	01	10	11
3	2	1	2

~~3~~ ~~8~~ ~~6~~ ~~8~~
~~2~~ ~~4~~ 5 ~~7~~
~~1~~ 3 6

	01	0	1	2	3	4	5	6	7
4	01								
16	00								
13	11	2	16	18	4	7	9	13	14
9	10								
14	11								
2	00								
18	00								
7	01								

III

∞	01	10	11
6	2		

~~6~~ ~~8~~
~~5~~ ~~7~~
 1 6

2
16
18
1
1

0	1	2	3	4	5	6	7
---	---	---	---	---	---	---	---

Masca radix

00 00 11

00 11 00

$\times 2$ 06 11

$\times \gg 2$ 2 ($\sim 0 \ll 2$)

Mergesort

7 4 14 13 | 2 16 18 9

7 4 | 14 13 | 2 16 | 18 9

4 7 | 13 14 | 2 16 | 9 18

4 7 13 14 | 2 9 16 18

2 4 7 9 13 14 16 18

✓

Sortări Externe

→ sortări pe fișiere

~~quick~~
~~selection~~
insertion

I A: 7 4 14 13 2 16 18 9

B:

7
4

14
13

2
16

18
9

C:

7
4

14
13

2
16

18
9

II A: 4 7 13 14 2 16 9 18

B: $\begin{pmatrix} 4 \\ 13 \end{pmatrix} \begin{pmatrix} 7 \\ 14 \end{pmatrix} \begin{pmatrix} 2 \\ 9 \end{pmatrix} \begin{pmatrix} 16 \\ 18 \end{pmatrix}$

C: $\begin{pmatrix} 4 \\ 2 \end{pmatrix} \begin{pmatrix} 7 \\ 9 \end{pmatrix} \begin{pmatrix} 13 \\ 16 \end{pmatrix} \begin{pmatrix} 14 \\ 18 \end{pmatrix}$

A: 4 7 13 14 2 9 16 18

B:

4	7
2	9

13	14
16	18

A: 2 4 7 9 13 14 16 18

A: 7 4 14 13 2 16 18

B:

7
4

14
13

2
16

18

A: 4 7 13 14 2 16 18

B: 4 7

C:

A: 7 4 14 13 2 16 18

B:

$\ell=1$ C:

7
4

 14 2 18
D: 13 16

$\ell=2$ A:

4	7
13	14

2	16
18	

$\ell=2$ C:

4	7	13	14
2	16	18	

$\ell=4$ A: 2 4 7 13 14 16 18

3B

Naturală

→ secvență

A: 7 4 14 13 2 16 18

B: 7 13

C: 4 14 2 16 18

A: 4 7 13 14 2 16 18

B: 4 7 13 14

C: 2 16 18

A: →

4B Nat.

A: 7 4 14 13 2 16 18

B: 7 13

C: 4 14 2 16 18

D: 4 7 13 14

A: 2 16 18

B: 2 4 7 13 14 16 18

