



itérations

$$W = 83 \mid 42 \mid 41 \mid 40 \mid 12 \mid 11 \quad \parallel \quad C = 100$$

$$m = 6 \quad N = 3 \quad j =$$

	1	2	3
1	1	2	3
2	4	5	6
3	7	8	9
4	10	11	12
5	13	14	15
6	16	17	18

$$= x_{ij}$$

$$N^0(S) = \{1\}$$

$$N^F(S) = \{2, \dots, 18\}$$

$$L_1 = \left\lceil \frac{83+42+41+40+12+11}{100} \right\rceil = \left\lceil 2,29 \right\rceil = 3$$

$$\bar{z} = 3$$

$$N^0(S) = N^1(S) = \emptyset$$

$$N^F(S) = \{1, \dots, 18\}$$

$$x_i = (0, \dots, 0), \quad z = 0$$

$$\bar{C} = (100, 100, 100)$$

$$N^1(S) = \{1\}; \quad 1 \text{ est item 1 dans bin 1}; \quad N^0(S) = \emptyset$$

$$N^F(S) = \{2, \dots, 18\}; \quad \bar{C} = (17, 100, 100); \quad z = 1$$

$$L_1 = \left\lceil \frac{42+41+40+12+11}{100} \right\rceil = \left\lceil 1,46 \right\rceil = 2$$

$$N^1(S) = \{1\}$$

$$N^0(S) = \{5\}$$

$$N^F(S) = \{2, \dots, 18\}$$

$$L_1 = \left\lceil 1,46 \right\rceil = 2$$

$$N^1(S) = \{1, 5\}; \quad 5 \text{ est item 2 dans bin 2}; \quad N^0(S) = \emptyset$$

$$N^F(S) = \{2, 3, 4, 6, \dots, 18\}; \quad \bar{C} = (17, 58, 100); \quad z = 2$$

$$L_1 = \left\lceil \frac{41+40+12+11}{100} \right\rceil = \left\lceil 1,04 \right\rceil = 2$$

$$N^1(S) = \{1, 5\}$$

$$N^0(S) = \{8\}$$

$$L_1 = \left\lceil 1,04 \right\rceil = 2$$

$$N^1(S) = \{1, 5, 8\}; \quad 8 \text{ est item 3 dans bin 2}; \quad N^0(S) = \emptyset$$

$$N^F(S) = \{2, 3, 4, 6, 7, 9, \dots, 18\}; \quad \bar{C} = (17, 17, 100); \quad z = 2$$

$$L_1 = \left\lceil \frac{40+12+11}{100} \right\rceil = \left\lceil 0,63 \right\rceil = 1$$

$$N^1(S) = \{1, 5, 8\}$$

$$N^0(S) = \{12\}$$

$$L_1 = \left\lceil 0,63 \right\rceil = 1$$

$$N^1(S) = \{1, 5, 8, 12\}; \quad 12 \text{ est item 4 dans bin 3}; \quad N^0(S) = \emptyset$$

$$N^F(S) = \{2, 3, 4, 6, 7, 9, 10, 11, 13, \dots, 18\}; \quad \bar{C} = (17, 17, 60); \quad z = 3$$

$$L_1 = \left\lceil \frac{12+11}{100} \right\rceil = \left\lceil 0,23 \right\rceil = 1$$

$$N^1(S) = \{1, 5, 8, 12\}$$

$$N^0(S) = \{13\}$$

$$L_1 = \left\lceil 0,23 \right\rceil = 1$$

$$N^1(S) = \{1, 5, 8, 12, 13\}; \quad 13 \text{ est item 5 dans bin 1}; \quad N^0(S) = \emptyset$$

$$N^F(S) = \{2, 3, 4, 6, 7, 9, 10, 11, 14, \dots, 18\}; \quad \bar{C} = (5, 17, 60); \quad z = 3$$

$$L_1 = \left\lceil \frac{11}{100} \right\rceil = \left\lceil 0,11 \right\rceil = 1$$

$$N^1(S) = \{1, 5, 8, 12, 13\}$$

$$N^0(S) = \{17\}$$

$$L_1 = \left\lceil 0,11 \right\rceil = 1$$

$$N^F(S) = \{2, 3, 4, 6, 7, 9, 10, 11, 14, 15, 16, 18\}$$

$$N^1(S) = \{1, 5, 8, 12, 13, 17\}; \quad 17 \text{ est item 6 dans bin 2}; \quad N^0(S) = \emptyset$$

$$N^F(S) = \{2, 3, 4, 6, 7, 9, 10, 11, 14, 15, 16, 18\}; \quad \bar{C} = (5, 6, 60); \quad z = 3$$

$$X \text{ réalisable } \& \quad z = 3$$

• sondé par  
infaisabilité  
(avec 3 bins)

• sondé par  
do minance  
(ajoute un 4<sup>ème</sup> bin)

$$N^1(S) = \{1, 5, 8, 12, 13, 17\}$$

$$N^0(S) = \{18\}$$

$$X \text{ réalisable } \& \quad z = 3$$

$$\bar{C} = (5, 17, 49)$$

sonde par optimalité

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