

$$C_1: \frac{3}{2} \quad \frac{8}{2} \quad \frac{2}{4} \quad \frac{4}{5} \quad \frac{5}{4} \quad \frac{6}{6} \quad \frac{7}{4} \quad \frac{3}{5}$$

## (4) Inters chimb are

## (4) inversiume

## (5) Inverore

2 Crossover simplu:

Pt. fiecore: val 1. alpha + val 2. (alpha -1)

3 Crassover total

-> se foce Rt. toate genele

3 Mutatia uniformá

-7 inlocuim o genă cu o valoare random din interval

(4) Mutatia neuniforma

-> acelas: luoru, dar avem o functie de generare a val-

Crossover multipunct 2

$$P_{1}$$
:  $1 \mid 2 \mid 3 \mid 4 \mid 5$ 
 $P_{2}$ :  $5 \mid 4 \mid 3 \mid 2 \mid 7$ 
 $C_{4}$ :  $1 \mid 4 \mid 3 \mid 4 \mid 5$ 
 $C_{2}$ :  $5 \mid 2 \mid 3 \mid 2 \mid 7$ 

- Crossover uniform
  - -7 alegem random parimele
- Resetare abatoare **4** 
  - -> alegem random
- Fluoj intreg 5
  - -> adaugam val.
- Negatie Bimar