

i= 0 2

i= 1 25

i= 2 20

i= 3 39

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(25,2,<-2)

(39, 2, <-2)

(20, 2, < -1)

(25,2,<-2), (39,2,<-2), (20,2,<-1), fitness 63

i= 0 1

i= 1 40

i= 2 33

i= 3 1

-----

(40,1,<-1)

(1,33,<-33)

(1, 33, <-1)

(40,1,<-1), (1,33,<-33), (1,33,<-1), fitness 123

i= 0 25

i= 1 30

i= 2 36

i= 3 14

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(25, 30, <- 30)

(36, 30, <- 30)

```
(14, 30, <-1)
(25, 30, <-30), (36, 30, <-30), (14, 30, <-1), fitness 7
 i= 0 40
 i= 1 21
 i= 2 39
 i= 3 44
(40, 21, <-21)
(39, 44, < -44)
(21, 44, <-1)
(40, 21, <-21), (39, 44, <-44), (21, 44, <-1), fitness 6
 i= 0 12
 i= 1 9
 i= 2 21
 i= 3 23
(21, 12, <-12)
(9, 23, < -23)
(12, 23, <-1)
(21, 12, <-12), (9, 23, <-23), (12, 23, <-1), fitness 12
size 5
2,0
7 , 63
populatie[2]=(25, 30, <-30), (36, 30, <-30), (14, 30, <-1), fitness 7
inainte de mutatie (25, 30, <-30), (36, 30, <-30), (14, 30, <-1), fitness 7
dupa mutatie (25, 30, <-25), (36, 30, <-30), (14, 25, <-1), fitness 7
```

```
cel mai bun la pasul 0: (40, 21, <- 21), (39, 44, <- 44), (21, 44, <- 1), fitness 6
size 5
0,3
63,6
populatie[3]=(40, 21, <-21), (39, 44, <-44), (21, 44, <-1), fitness 6
inainte de mutatie (40, 21, <- 21), (39, 44, <- 44), (21, 44, <- 1), fitness 6
dupa mutatie (40, 21, <-40), (39, 44, <-44), (40, 44, <-1), fitness 6
cel mai bun la pasul 1: (40, 21, <-40), (39, 44, <-44), (40, 44, <-1), fitness 6
size 5
2,2
7,7
populatie[2]=(25, 30, <-25), (36, 30, <-30), (14, 25, <-1), fitness 7
inainte de mutatie (25, 30, <-25), (36, 30, <-30), (14, 25, <-1), fitness 7
dupa mutatie (25, 30, <-30), (36, 30, <-30), (14, 30, <-1), fitness 7
cel mai bun la pasul 2: (40, 21, <-40), (39, 44, <-44), (40, 44, <-1), fitness 6
size 5
4,3
7,6
populatie[3]=(40,21,<-40), (39,44,<-44), (40,44,<-1), fitness 6
inainte de mutatie (40, 21, <-40), (39, 44, <-44), (40, 44, <-1), fitness 6
dupa mutatie (40, 21, <- 21), (39, 44, <- 44), (21, 44, <- 1), fitness 6
cel mai bun la pasul 3: (40, 21, <- 21), (39, 44, <- 44), (21, 44, <- 1), fitness 6
size 5
3,3
6,6
populatie[3]=(40,21,<-21), (39,44,<-44), (21,44,<-1), fitness 6
```

inainte de mutatie  $(40\,,\,21\,,\,<-\,21)$  ,  $(39\,,\,44\,,\,<-\,44)$  ,  $(21\,,\,44\,,\,<-\,1)$  , fitness 6 dupa mutatie  $(40\,,\,21\,,\,<-\,40)$  ,  $(39\,,\,44\,,\,<-\,44)$  ,  $(40\,,\,44\,,\,<-\,1)$  , fitness 6 cel mai bun la pasul  $4:(40\,,\,21\,,\,<-\,40)$  ,  $(39\,,\,44\,,\,<-\,44)$  ,  $(40\,,\,44\,,\,<-\,1)$  , fitness 6 size 5

2,3

6,6

populatie[2]=(40 , 21 , <- 40) , (39 , 44 , <- 44) , (40 , 44 , <- 1) , fitness 6 inainte de mutatie (40 , 21 , <- 40) , (39 , 44 , <- 44) , (40 , 44 , <- 1) , fitness 6 dupa mutatie (40 , 21 , <- 21) , (39 , 44 , <- 44) , (21 , 44 , <- 1) , fitness 6 cel mai bun la pasul 5 : (40 , 21 , <- 21) , (39 , 44 , <- 44) , (21 , 44 , <- 1) , fitness 6 size 5

0,3

6,6

populatie[0]=(40,21,<-21), (39,44,<-44), (21,44,<-1), fitness 6
inainte de mutatie (40,21,<-21), (39,44,<-44), (21,44,<-1), fitness 6
dupa mutatie (40,21,<-40), (39,44,<-44), (40,44,<-1), fitness 6
cel mai bun la pasul 6: (40,21,<-40), (39,44,<-44), (40,44,<-1), fitness 6
size 5

4,3

6,6

populatie[4]=(40 , 21 , <- 40) , (39 , 44 , <- 44) , (40 , 44 , <- 1) , fitness 6 inainte de mutatie (40 , 21 , <- 40) , (39 , 44 , <- 44) , (40 , 44 , <- 1) , fitness 6 dupa mutatie (40 , 21 , <- 21) , (39 , 44 , <- 44) , (21 , 44 , <- 1) , fitness 6 cel mai bun la pasul 7 : (40 , 21 , <- 21) , (39 , 44 , <- 44) , (21 , 44 , <- 1) , fitness 6 size 5

4,2

6,6

populatie[4]=(40 , 21 , <- 21) , (39 , 44 , <- 44) , (21 , 44 , <- 1) , fitness 6 inainte de mutatie (40 , 21 , <- 21) , (39 , 44 , <- 44) , (21 , 44 , <- 1) , fitness 6 dupa mutatie (40 , 21 , <- 40) , (39 , 44 , <- 44) , (40 , 44 , <- 1) , fitness 6 cel mai bun la pasul 8 : (40 , 21 , <- 40) , (39 , 44 , <- 44) , (40 , 44 , <- 1) , fitness 6 size 5

2,4

6,6

populatie[2]=(40,21,<-40), (39,44,<-44), (40,44,<-1), fitness 6
inainte de mutatie (40,21,<-40), (39,44,<-44), (40,44,<-1), fitness 6
dupa mutatie (40,21,<-21), (39,44,<-44), (21,44,<-1), fitness 6
cel mai bun la pasul 9: (40,21,<-21), (39,44,<-44), (21,44,<-1), fitness 6
size 5

3,3

6,6

populatie[3]=(40,21,<-21), (39,44,<-44), (21,44,<-1), fitness 6
inainte de mutatie (40,21,<-21), (39,44,<-44), (21,44,<-1), fitness 6
dupa mutatie (40,21,<-40), (39,44,<-44), (40,44,<-1), fitness 6
cel mai bun la pasul 10: (40,21,<-40), (39,44,<-44), (40,44,<-1), fitness 6
size 5

2,3

6,6

populatie[2]=(40 , 21 , <- 40) , (39 , 44 , <- 44) , (40 , 44 , <- 1) , fitness 6 inainte de mutatie (40 , 21 , <- 40) , (39 , 44 , <- 44) , (40 , 44 , <- 1) , fitness 6 dupa mutatie (40 , 21 , <- 21) , (39 , 44 , <- 44) , (21 , 44 , <- 1) , fitness 6 cel mai bun la pasul 11 : (40 , 21 , <- 21) , (39 , 44 , <- 44) , (21 , 44 , <- 1) , fitness 6

```
size 5
3,3
6,6
populatie[3]=(40,21,<-21), (39,44,<-44), (21,44,<-1), fitness 6
inainte de mutatie (40, 21, <- 21), (39, 44, <- 44), (21, 44, <- 1), fitness 6
dupa mutatie (40, 21, <-40), (39, 44, <-44), (40, 44, <-1), fitness 6
cel mai bun la pasul 12: (40, 21, <-40), (39, 44, <-44), (40, 44, <-1), fitness 6
size 5
3,3
6,6
populatie[3]=(40, 21, <-40), (39, 44, <-44), (40, 44, <-1), fitness 6
inainte de mutatie (40, 21, <-40), (39, 44, <-44), (40, 44, <-1), fitness 6
dupa mutatie (40, 21, <- 21), (39, 44, <- 44), (21, 44, <- 1), fitness 6
cel mai bun la pasul 13: (40, 21, <- 21), (39, 44, <- 44), (21, 44, <- 1), fitness 6
size 5
2,4
6,6
populatie[2]=(40,21,<-21), (39,44,<-44), (21,44,<-1), fitness 6
```

populatie[2]=(40 , 21 , <- 21) , (39 , 44 , <- 44) , (21 , 44 , <- 1) , fitness 6 inainte de mutatie (40 , 21 , <- 21) , (39 , 44 , <- 44) , (21 , 44 , <- 1) , fitness 6 dupa mutatie (40 , 21 , <- 40) , (39 , 44 , <- 44) , (40 , 44 , <- 1) , fitness 6 cel mai bun la pasul 14 : (40 , 21 , <- 40) , (39 , 44 , <- 44) , (40 , 44 , <- 1) , fitness 6 solutia cea mai buna (40 , 21 , <- 40) , (39 , 44 , <- 44) , (40 , 44 , <- 1) , fitness 6 BUILD SUCCESSFUL (total time: 20 seconds)