МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ НАЦІОНАЛЬНОМУ УНІВЕРСИТЕТІ "ЛЬВІВСЬКА ПОЛІТЕХНІКА"

Кафедра систем штучного інтелекту

Лабораторна робота №4

з дисципліни

«Алгоритмізація та програмування I»

Виконав:

студент групи КН-108

Зінько Павло

Викладач:

Гасько Р.Т.

Варіант №13

- 1) Сформувати одновимірний масив цілих чисел, використовуючи генератор випадкових чисел.
- 2) Роздрукувати отриманий масив.
- 3) Знищити з масиву всі елементи, які співпадають з його мінімальним значенням.
- 4) Додати на початок масиву 3 елементи зі значенням, яке дорівнює середньому арифметичному масиву.
- 5) Роздрукувати отриманий масив.

Код:

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
 int main()
     //reнepyem macus
int N = 50,m[N],p[N];
srand(time(NULL));
     for(int n=0;n<50;n++)
         m[n]=rand()%51;
printf("\n m[%d] = %d",n,m[n]);
     printf("\n");
      //знаходимо мін. значення
      int min = m[0];
for(int i=0;i<50;i++)
          if(m[i]<min)</pre>
              min=m[i];
      //знищуєм мін. значення
for(int i=0;i<50;i++)
          if(m[i]!=min)
         p[i]=m[i];
      //знаходимо середнє арифметичне
      int mid, sum=0;
for (int i=0;i<49;i++)
          sum+= m[i] +m[i+1];
      mid=sum/50;
      //добавляєм на початок елементи середнього значення
      for(int i=0;i<50;i++)
           if(m[i]==mid)
                p[0]=p[0]+mid;
                p[2]=p[2]+mid;
          printf("\n p[%d]=%d",i,p[i]);
}
```

Розв'язок:

m[1] = 36 m[2] = 12 m[3] = 35 m[4] = 45 m[5] = 2 m[6] = 36 m[7] = 48 m[8] = 32 m[9] = 3 m[10] = 47 m[11] = 13 m[12] = 48 m[13] = 48 m[13] = 48 m[14] = 11 m[15] = 19 m[16] = 46 m[17] = 0 m[18] = 30 m[21] = 36 m[22] = 50 m[23] = 34 m[24] = 28 m[25] = 20 m[26] = 26 m[27] = 8 m[28] = 17 m[29] = 20 m[30] = 25 m[31] = 3 m[32] = 30 m[32] = 30 m[33] = 37 m[34] = 12 m[35] = 25 m[36] = 39 m[37] = 48 m[38] = 47 m[39] = 46 m[40] = 26 m[41] = 17 m[42] = 33 m[44] = 12 m[45] = 19 m[45] = 19 m[45] = 30 m[44] = 28 m[38] = 47 m[39] = 46 m[39] = 46 m[40] = 26 m[41] = 17 m[42] = 33 m[44] = 12 m[45] = 19 m[45] = 19		
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m[22] = 50 p[22]=50 m[23] = 34 p[23]=34 m[24] = 28 p[24]=28 m[25] = 20 p[25]=20 m[26] = 26 p[26]=26 m[27] = 8 p[27]=8 m[28] = 17 p[28]=17 m[29] = 20 p[29]=20 m[30] = 25 p[30]=25 m[31] = 3 p[31]=3 m[32] = 30 p[32]=30 m[33] = 37 p[33]=37 m[34] = 12 p[34]=12 m[35] = 25 p[35]=25 m[36] = 39 p[36]=39 m[37] = 48 p[37]=48 m[39] = 46 p[39]=46 m[40] = 26 p[40]=26 m[41] = 17 p[41]=17 m[42] = 33 p[42]=33 m[43] = 23 p[43]=23 m[45] = 19 p[45]=19 m[46] = 16 p[46]=16 m[47] = 10 p[48]=19 m[48] = 19 p[48]=19		
m[23] = 34 p[24] = 28 m[24] = 28 p[24] = 28 m[25] = 20 p[25] = 20 m[26] = 26 p[26] = 26 m[27] = 8 p[27] = 8 m[28] = 17 p[28] = 17 m[29] = 20 p[29] = 20 m[30] = 25 p[30] = 25 m[31] = 3 p[31] = 3 m[32] = 30 p[33] = 37 m[34] = 12 p[34] = 12 m[35] = 25 p[35] = 25 m[36] = 39 p[36] = 39 m[37] = 48 p[37] = 48 m[39] = 46 p[39] = 46 m[40] = 26 p[40] = 26 m[41] = 17 p[41] = 17 m[42] = 33 p[42] = 33 m[43] = 23 p[43] = 23 m[45] = 19 p[45] = 19 m[46] = 16 p[46] = 16 m[47] = 10 p[48] = 19		
m[24] = 28 p[24]=28 m[25] = 20 p[25]=20 m[26] = 26 p[26]=26 m[27] = 8 p[27]=8 m[28] = 17 p[28]=17 m[29] = 20 p[30]=25 m[30] = 25 p[30]=25 m[31] = 3 p[31]=3 m[32] = 30 p[33]=37 m[34] = 12 p[34]=12 m[35] = 25 p[36]=39 m[37] = 48 p[37]=48 m[38] = 47 p[38]=47 m[40] = 26 p[40]=26 m[41] = 17 p[41]=17 m[42] = 33 p[42]=33 m[43] = 23 p[43]=23 m[44] = 15 p[44]=15 m[45] = 19 p[46]=16 m[47] = 10 p[47]=10 m[48] = 19 p[48]=19		
m[25] = 20 m[26] = 26 m[27] = 8 m[28] = 17 m[29] = 20 m[30] = 25 m[31] = 3 m[32] = 30 m[33] = 37 m[34] = 12 m[35] = 25 m[36] = 39 m[37] = 48 m[38] = 47 m[39] = 46 m[40] = 26 m[41] = 17 m[42] = 33 m[43] = 23 m[44] = 15 m[45] = 19 m[46] = 16 m[47] = 10 m[48] = 19 p[25] = 20 p[26] = 26 p[27] = 8 p[30] = 25 p[30] = 25 p[31] = 3 p[32] = 30 p[33] = 37 p[33] = 37 p[34] = 12 p[34] = 12 p[41] = 17 p[41] = 17 p[41] = 17 p[41] = 17 p[42] = 33 m[43] = 23 m[44] = 15 m[45] = 19 m[46] = 16 m[47] = 10 m[48] = 19		
m[26] = 26 p[26]=26 m[27] = 8 p[27]=8 m[28] = 17 p[28]=17 m[29] = 20 p[29]=20 m[30] = 25 p[30]=25 m[31] = 3 p[31]=3 m[32] = 30 p[33]=37 m[34] = 12 p[34]=12 m[35] = 25 p[35]=25 m[36] = 39 p[36]=39 m[37] = 48 p[37]=48 m[38] = 47 p[38]=47 m[40] = 26 p[40]=26 m[41] = 17 p[41]=17 m[42] = 33 p[42]=33 m[43] = 23 p[43]=23 m[45] = 19 p[45]=19 m[46] = 16 p[47]=10 m[48] = 19 p[48]=19		
m[27] = 8 p[27]=8 m[28] = 17 p[28]=17 m[29] = 20 p[29]=20 m[30] = 25 p[30]=25 m[31] = 3 p[31]=3 m[32] = 30 p[32]=30 m[33] = 37 p[33]=37 m[34] = 12 p[34]=12 m[35] = 25 p[36]=39 m[37] = 48 p[37]=48 m[38] = 47 p[38]=47 m[39] = 46 p[39]=46 m[40] = 26 p[40]=26 m[41] = 17 p[41]=17 m[42] = 33 p[43]=23 m[44] = 15 p[44]=15 m[45] = 19 p[45]=19 m[46] = 16 p[47]=10 m[48] = 19 p[48]=19		
m[28] = 17 p[28] = 17 m[29] = 20 p[29] = 20 m[30] = 25 p[30] = 25 m[31] = 3 p[31] = 3 m[32] = 30 p[32] = 30 m[33] = 37 p[33] = 37 m[34] = 12 p[34] = 12 m[35] = 25 p[35] = 25 m[36] = 39 p[36] = 39 m[37] = 48 p[37] = 48 m[38] = 47 p[38] = 47 m[39] = 46 p[39] = 46 m[40] = 26 p[40] = 26 m[41] = 17 p[41] = 17 m[42] = 33 p[42] = 33 m[43] = 23 p[43] = 23 m[44] = 15 p[44] = 15 m[45] = 19 p[46] = 16 m[47] = 10 p[47] = 10 m[48] = 19 p[48] = 19		
m[29] = 20 p[29]=20 m[30] = 25 p[30]=25 m[31] = 3 p[31]=3 m[32] = 30 p[32]=30 m[33] = 37 p[33]=37 m[34] = 12 p[34]=12 m[35] = 25 p[35]=25 m[36] = 39 p[36]=39 m[37] = 48 p[37]=48 m[38] = 47 p[38]=47 m[39] = 46 p[39]=46 m[40] = 26 p[40]=26 m[41] = 17 p[41]=17 m[42] = 33 p[42]=33 m[43] = 23 p[43]=23 m[44] = 15 p[45]=19 m[46] = 16 p[46]=16 m[47] = 10 p[48]=19		
m[30] = 25 m[31] = 3 m[32] = 30 m[33] = 37 m[34] = 12 m[35] = 25 m[36] = 39 m[37] = 48 m[38] = 47 m[39] = 46 m[40] = 26 m[41] = 17 m[42] = 33 m[43] = 23 m[43] = 23 m[44] = 15 m[45] = 19 m[46] = 16 m[47] = 10 m[48] = 19 p[30]=25 p[31]=36 p[32]=36 p[33]=37 p[34]=12 p[34]=12 p[34]=12 p[34]=12 p[44]=15 p[44]=15 p[44]=15 p[44]=15 p[44]=16 p[46]=16 p[47]=10 m[48] = 19	m[28] = 17	
m[31] = 3	m[29] = 20	
m[32] = 30	m[30] = 25	p[30]=25
m[33] = 37	m[31] = 3	p[31]=3
m[34] = 12	m[32] = 30	p[32]=30
m[35] = 25 m[36] = 39 m[37] = 48 m[38] = 47 m[39] = 46 m[40] = 26 m[41] = 17 m[42] = 33 m[43] = 23 m[44] = 15 m[45] = 19 m[46] = 16 m[47] = 10 m[48] = 19 p[35]=25 p[36]=39 p[37]=48 p[37]=48 p[37]=48 p[37]=48 p[37]=48 p[37]=48 p[48]=39 p[40]=26 p[40]=26 p[40]=26 p[41]=17 p[41]=17 p[42]=33 p[43]=23 p[43]=23 p[44]=15	m[33] = 37	p[33]=37
m[36] = 39	m[34] = 12	p[34]=12
m[37] = 48	m[35] = 25	
m[38] = 47 m[39] = 46 m[40] = 26 m[41] = 17 m[42] = 33 m[43] = 23 m[44] = 15 m[45] = 19 m[46] = 16 m[47] = 10 m[48] = 19	m[36] = 39	p[36]=39
m[39] = 46	m[37] = 48	p[37]=48
m[40] = 26 $p[40] = 26$ $p[41] = 17$ $p[41] = 17$ $p[42] = 33$ $p[42] = 33$ $p[43] = 23$ $p[44] = 15$ $p[44] = 15$ $p[44] = 15$ $p[45] = 19$ $p[46] = 16$ $p[46] = 16$ $p[47] = 10$ $p[48] = 19$	m[38] = 47	p[38]=47
m[40] = 26 $p[40] = 26$ $p[40] = 26$ $m[41] = 17$ $p[41] = 17$ $m[42] = 33$ $m[43] = 23$ $m[44] = 15$ $m[45] = 19$ $m[45] = 19$ $m[46] = 16$ $m[47] = 10$ $m[48] = 19$ $p[48] = 19$	m[39] = 46	p[39]=46
m[41] = 17 $p[41]=17$ $p[42]=33$ $p[42]=33$ $m[43] = 23$ $p[43]=23$ $p[44]=15$ $p[44]=15$ $p[45]=19$ $p[45]=19$ $p[46]=16$ $p[47]=10$ $p[47]=10$ $p[48]=19$		p[40]=26
m[42] = 33 $p[42] = 33$ $p[43] = 23$ $p[43] = 23$ $p[44] = 15$ $p[44] = 15$ $p[45] = 19$ $p[45] = 19$ $p[46] = 16$ $p[47] = 10$ $p[47] = 10$ $p[48] = 19$		p[41]=17
m[43] = 23 $p[43] = 23$ $p[44] = 15$ $p[44] = 15$ $p[45] = 19$ $p[45] = 19$ $p[46] = 16$ $p[47] = 10$ $p[47] = 10$ $p[48] = 19$		p[42]=33
m[44] = 15 $p[44]=15$ $p[45]=19$ $p[45]=19$ $m[46] = 16$ $p[46]=16$ $p[47]=10$ $p[48]=19$ $p[48]=19$		p[43]=23
m[45] = 19 $p[45] = 19$ $p[46] = 16$ $p[46] = 16$ $p[47] = 10$ $p[47] = 10$ $p[48] = 19$		p[44]=15
m[46] = 16 $p[46] = 16$ $m[47] = 10$ $p[47] = 10$ $p[48] = 19$		p[45]=19
m[47] = 10 $p[47] = 10$ $p[48] = 19$		p[46]=16
m[48] = 19 p[48]=19		
m[+2] - 40		
	[45] - 40	