

**The second serie (N°02)**

**Solution**

**Exercice 14 :**

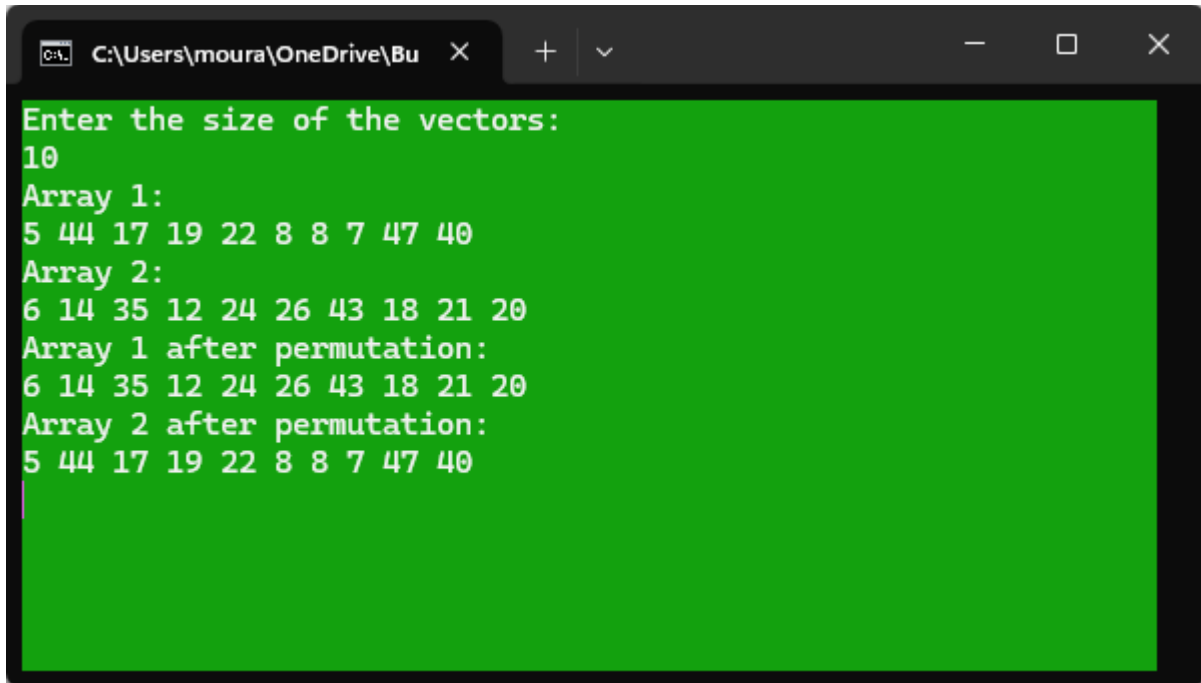
- 1) Here is a pascal program which permutes (element by element) two arrays automatically filled with values between 5 and 50 (use the Randomize function):

**See the next pages.**

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```
Program permutation;
Var
  i,size,temp: Integer;
  v1,v2: Array[1..100] of Integer;
Begin
  Writeln('Enter the size of the vectors: ');
  Readln(size);
Randomize;
  For i:=1 To size Do
    Begin
      v1[i] := Random(46)+5;
      v2[i] := Random(46)+5;
    End;
  Writeln('Enter Array 1:');
  For i:=1 To size Do
    Write(v1[i], ' ');
  Writeln;
  Writeln('Enter Array 2:');
  For i:=1 To size Do
    Write(v2[i], ' ');
  Writeln;
  For i:=1 To size Do
    Begin
      temp := v1[i];
      v1[i] := v2[i];
      v2[i] := temp;
    End;
  Writeln('Array 1 after permutation:');
  For i:=1 To size Do
    Write(v1[i], ' ');
  Writeln;
  Writeln('Array 2 after permutation:');
  For i:=1 To size Do
    Write(v2[i], ' ');
  Writeln;
  Readln;
End.
```

After program running, here's the display:



The screenshot shows a Windows command prompt window with a green background. The window title bar indicates the path C:\Users\moura\OneDrive\Bu. The output of the program is as follows:

```
Enter the size of the vectors:  
10  
Array 1:  
5 44 17 19 22 8 8 7 47 40  
Array 2:  
6 14 35 12 24 26 43 18 21 20  
Array 1 after permutation:  
6 14 35 12 24 26 43 18 21 20  
Array 2 after permutation:  
5 44 17 19 22 8 8 7 47 40
```

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