

The second serie (N°02)

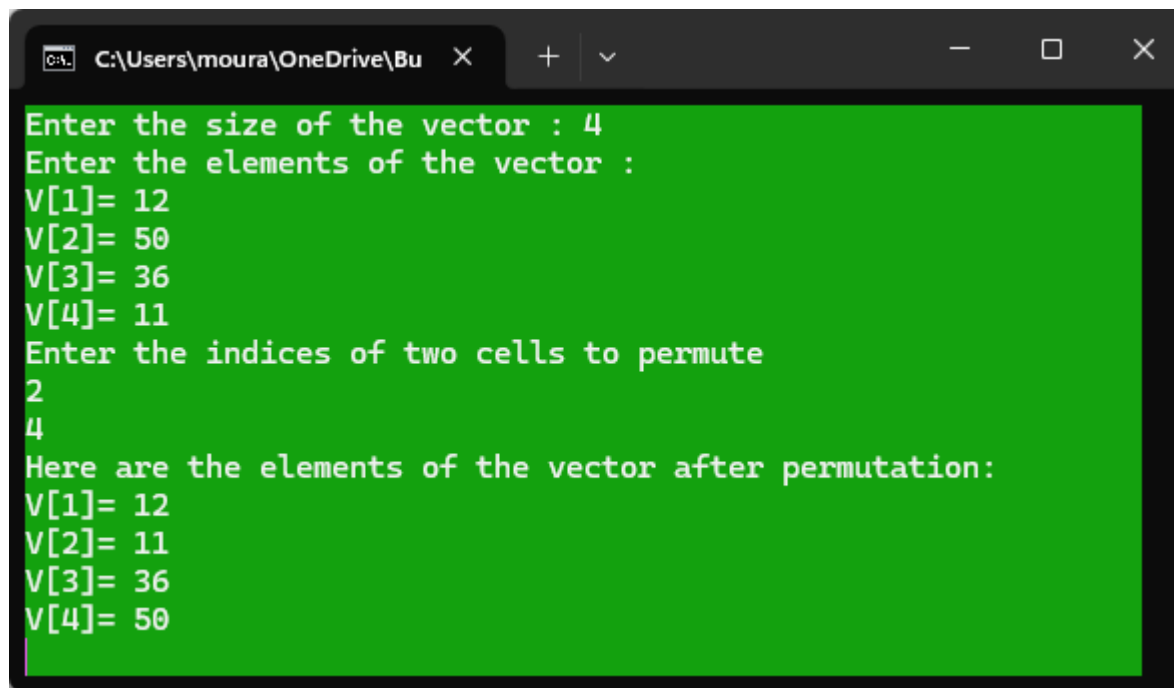
Solution

Exercise 13 :

- 1) Here is a pascal program which permutes between two cells of a vector of n elements (the choice of the two cells is defined randomly by the user):

```
program permutation;
var i,size,i1,i2,temp:integer;
v:array[1..100] of integer;
Begin
write('Enter the size of the vector : '); readln(size);
writeln('Enter the elements of the vector :');
for i:=1 to size do
Begin
write('v['i,']= ');
readln(v[i]);
end;
writeln('Enter the indices of two cells to permute ');
readln(i1,i2);
temp:=v[i1];
v[i1]:= v[i2];
v[i2]:=temp;
writeln('Here are the elements of the vector after permutation: ');
for i:=1 to size do
Begin
write('v['i,']= ');
writeln(v[i]);
end;
readln;
end.
```

After program running, here's the display:



```
C:\Users\moura\OneDrive\Bu x + v - □ ×
Enter the size of the vector : 4
Enter the elements of the vector :
V[1]= 12
V[2]= 50
V[3]= 36
V[4]= 11
Enter the indices of two cells to permute
2
4
Here are the elements of the vector after permutation:
V[1]= 12
V[2]= 11
V[3]= 36
V[4]= 50
```

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