

The second serie (N°02)

**Solution**

**Exercice 15 :**

1) Here is a pascal program that sorts a vector in ascending then descending order:

**See the next pages.**

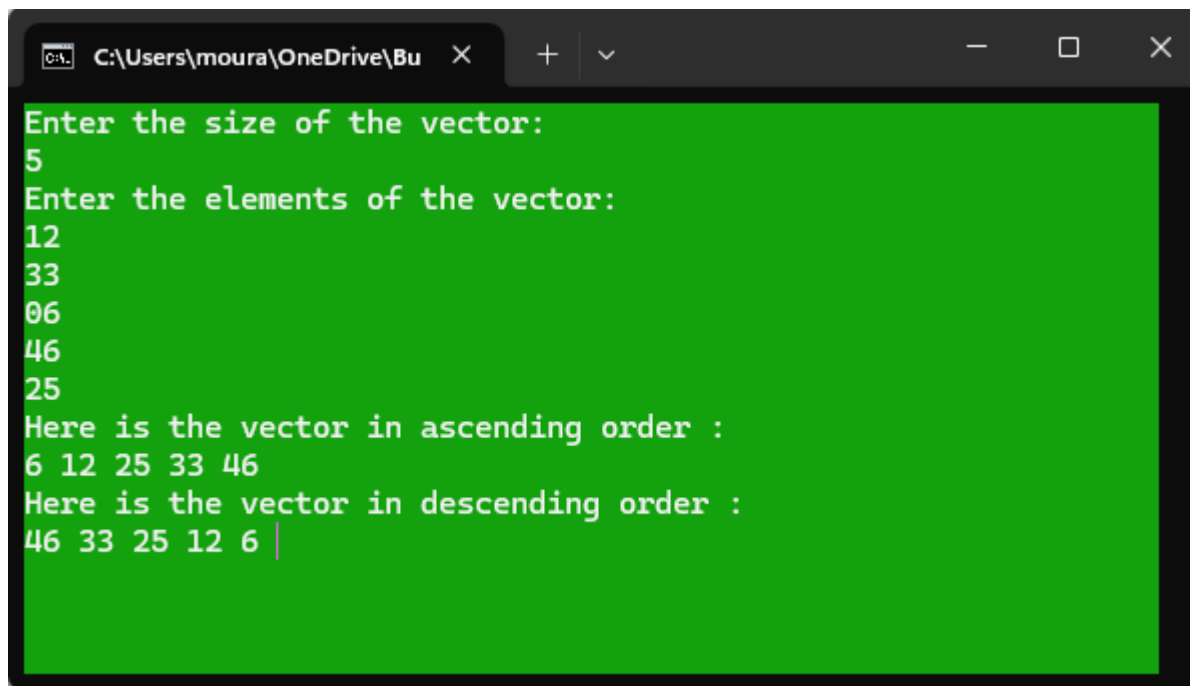
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```

Program ex15;
Var
  i,j,n,temp: Integer;
  v: Array[1..100] Of Integer;
Begin
  Writeln('Enter the size of the vector: ');
  Readln(n);
  Writeln('Enter the elements of the vector: ');
  For i:=1 To n Do
    Readln(v[i]);
  For i:=1 To n-1 Do
    For j:=i+1 To n Do
      If v[i]>v[j] Then
        Begin
          temp := v[i];
          v[i] := v[j];
          v[j] := temp;
        End;
  Writeln('Here is the vector in ascending order : ');
  For i:=1 To n Do
    Write(v[i], ' ');
  Writeln;
  For i:=1 To n-1 Do
    For j:=i+1 To n Do
      If v[i]<v[j] Then
        Begin
          temp := v[i];
          v[i] := v[j];
          v[j] := temp;
        End;
  Writeln('Here is the vector in descending order : ');
  For i:=1 To n Do
    Write(v[i], ' ');
  Readln;
End.

```

After program running, here's the display:



```
C:\Users\moura\OneDrive\Bu X + v - □ X
Enter the size of the vector:
5
Enter the elements of the vector:
12
33
06
46
25
Here is the vector in ascending order :
6 12 25 33 46
Here is the vector in descending order :
46 33 25 12 6 |
```

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