```pascal
program Bac28mai2013_14h;
uses wincrt;
type
  tab = array[1..20] of integer;
var
  n : integer;
  t : tab;

procedure saisir(var n:integer);
begin
  repeat
    readln(n);
  until n in [5..20];
end;

procedure remplir(n:integer; var t:tab);
var i:integer;
begin
  for i:=1 to n do
    readln(t[i]);
end;

procedure segmenter(n:integer; var t:tab);
var
  i,j,k,aux:integer;
begin
  j:=1;
  for i:=2 to n do
  begin
    if t[i]<=t[j]
    then  begin
        aux:=t[i];
        for k:=i downto j+1 do
          t[k]:=t[k-1];
        t[j]:=aux;
        j:=j+1;
      end;
  end;
end;

procedure afficher(n:integer;t:tab);
var i:integer;
begin
  for i:=1 to n do
    writeln(t[i]);
end;

begin
  writeln('saisie de n :');
  saisir(n);
  writeln('saisie de T :');
  remplir(n,t);
  segmenter(n,t);
  writeln('T après segmentation :');
  afficher(n,t);
end.
```