

{Irkuk ki az 1 2 ... n halmaz osszes permutacioit!}

uses crt;

const maxkap=20; {maximalis kapacitas}

var n,p,k: integer;

 v:array[1..maxkap] of integer;

 valtozhat, jo, tele: boolean;

procedure init;

begin

 v[p]:=0

end;

procedure modosit;

begin

 valtozhat := (v[p]<n);

 if valtozhat then inc(v[p])

end;

procedure ellenoriz;

var i:integer;

begin

 jo:=true;

 for i:=1 to p-1 do begin

 jo := (v[i]<>v[p]);

 if not jo then exit

 end

end;

procedure vizsgal;

begin

 tele:= (p=n);

end;

procedure kiir;

var i:integer;

begin

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    for i:=1 to p do write(v[i]:3);
    writeln;
end;

begin {foprogram}
  clrscr;
  write('n=');readln(n);
  p:=1; init;
  while p>0 do
    begin
      repeat
        modosit;
        if valtozhat then ellenoriz
until (not valtozhat) or jo;
        if valtozhat then begin
          vizsgal;
          if tele then kiir
            else begin
              inc(p);
              init
            end;
          end
        else dec(p);
      end; {while vege}
    readln;
  end.

```