Program - Hanojské veže :)

Program napísaný v jazyku Pascal.

```
program HanojskeVezeOk;

var
 tyce: array[1..3,0..5] of integer;
 i,j: integer;
 z,na: integer;
 top1,top2,top3: integer;
 pom,pokus:integer;

begin
 top1:=5;
 tyce [1,1]:=10;
 tyce [1,2]:=8;
 tyce [1,3]:=6;
 tyce [1,4]:=4;
 tyce [1,5]:=2;
 top2:=0;
 tyce [2,1]:=0;
 tyce [2,2]:=0;
 tyce [2,3]:=0;
 tyce [2,4]:=0;
 tyce [2,5]:=0;
 top3:=0;
 tyce [3,1]:=0;
 tyce [3,2]:=0;
 tyce [3,3]:=0;
 tyce [3,4]:=0;
 tyce [3,5]:=0;

writeln;
 for i:=5 downto 1 do begin
 for j:=1 to 3 do begin
 if (tyce[j,i])=10 then begin
 write(' xxxxxIxxxxx ');
 end;
 if (tyce[j,i])= 8 then begin
 write(' xxxxIxxxx ');
 end;
 if (tyce[j,i])= 6 then begin
 write(' xxxIxxx ');
 end;
 if (tyce[j,i])= 4 then begin
 write(' xxIxx ');
 end;
 if (tyce[j,i])= 2 then begin
 write(' xIx ');
 end;
 if (tyce[j,i])= 0 then begin
 write(' I ');
 end;
 end;
 writeln;
 end;
repeat
 writeln;
```

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```
 writeln ('Kotuc z ktorej tyce chces premiestnit?');
 readln(z);
 writeln ('Kotuc chces premiestnit na ktoru tyc?');
 readln(na);
 if (z=na) then begin
 writeln ('POMYLIL SI SA.');
 end;
 if (z=1) and (na=2) then begin
 if (tyce[2,top2]>tyce[1,top1]) or (tyce[2,top2]=0)then begin
 top2:=top2+1;
 tyce[2,top2]:=tyce[1,top1];
 top1:=top1-1;
 tyce[1,top1+1]:=0;
 pokus:=pokus+1;
 end
 else writeln ('NEMOZES PREMIESTNIT > KOTUC NA <.')
 end;

if (z=2) and (na=1) then begin
 if (tyce[1,top1]>tyce[2,top2]) or (tyce[1,top1]=0)then begin
 top1:=top1+1;
 tyce[1,top1]:=tyce[2,top2];
 top2:=top2-1;
 tyce[2,top2+1]:=0;
 pokus:=pokus+1;
 end
 else writeln ('NEMOZES PREMIESTNIT > KOTUC NA <.')
 end;

if (z=1) and (na=3) then begin
 if (tyce[3,top3]>tyce[1,top1]) or (tyce[3,top3]=0)then begin
 top3:=top3+1;
 tyce[3,top3]:=tyce[1,top1];
 top1:=top1-1;
 tyce[1,top1+1]:=0;
 pokus:=pokus+1;
 end
 else writeln ('NEMOZES PREMIESTNIT > KOTUC NA <.')
 end;

if (z=2) and (na=3) then begin
 if (tyce[3,top3]>tyce[2,top2]) or (tyce[3,top3]=0)then begin
 top3:=top3+1;
 tyce[3,top3]:=tyce[2,top2];
 top2:=top2-1;
 tyce[2,top2+1]:=0;
 pokus:=pokus+1;
 end
 else writeln ('NEMOZES PREMIESTNIT > KOTUC NA <.')
 end;

if (z=3) and (na=1) then begin
 if (tyce[1,top1]>tyce[3,top3]) or (tyce[1,top1]=0)then begin
 top1:=top1+1;
 tyce[1,top1]:=tyce[3,top3];
 top3:=top3-1;
 tyce[3,top3+1]:=0;
 pokus:=pokus+1;
 end
```

```
 else writeln ('NEMOZES PREMIESTNIT > KOTUC NA <.')
 end;

if (z=3) and (na=2) then begin
 if (tyce[2,top2]>tyce[3,top3]) or (tyce[2,top2]=0)then begin
 top2:=top2+1;
 tyce[2,top2]:=tyce[3,top3];
 top3:=top3-1;
 tyce[3,top3+1]:=0;
 pokus:=pokus+1;
 end
 else writeln ('NEMOZES PREMIESTNIT > KOTUC NA <.')
 end;
 writeln;

for i:=5 downto 1 do begin
 for j:=1 to 3 do begin
 if (tyce[j,i])=10 then begin
 write(' xxxxxIxxxxx ');
 end;
 if (tyce[j,i])= 8 then begin
 write(' xxxxIxxxx ');
 end;
 if (tyce[j,i])= 6 then begin
 write(' xxxIxxx ');
 end;
 if (tyce[j,i])= 4 then begin
 write(' xxIxx ');
 end;
 if (tyce[j,i])= 2 then begin
 write(' xIx ');
 end;
 if (tyce[j,i])= 0 then begin
 write('      I ');
 end;
 end;
 writeln;
 end;
 writeln;
 writeln ('POCET PREMIESTNENI =',pokus);
 writeln;
 writeln ('HRAME DALEJ (NIE=0)?');
 readln(pom);
until pom=0;

end.
```

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