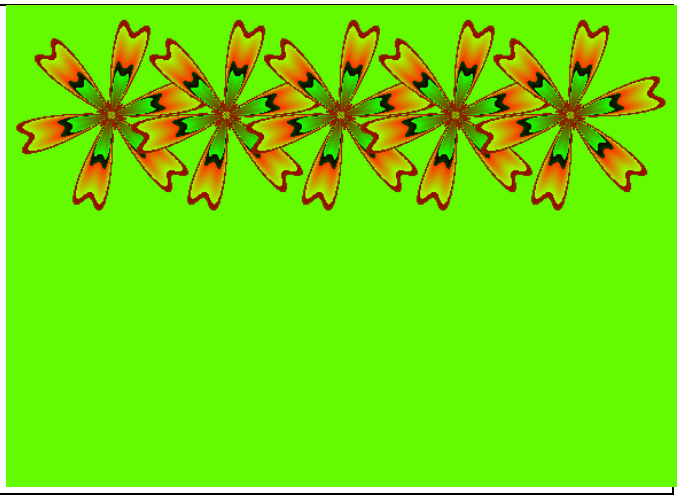
Instructiunea repetitiva *for*

Functia *floare(x,y)* deseneaza o floare cu centrul in punctul de coordonatele (x,y).
Coordonatele centrelor florilor sunt: (100,100), (200,100), (300,100), (400,100), (500,100).

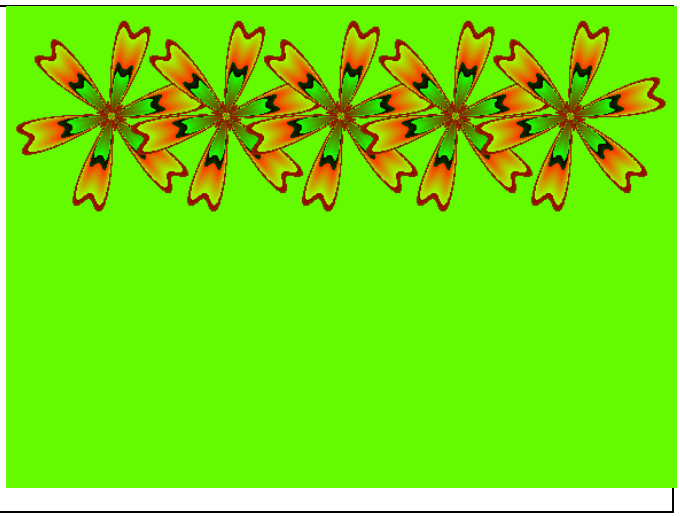
S1	*floare (100, 100);* *floare (200, 100);* *floare (300, 100);* *floare (400, 100);* *floare (500, 100);*	

Aceiasi rezultat se poate obtine cu ajutorul instructiunii repetitive *for.*

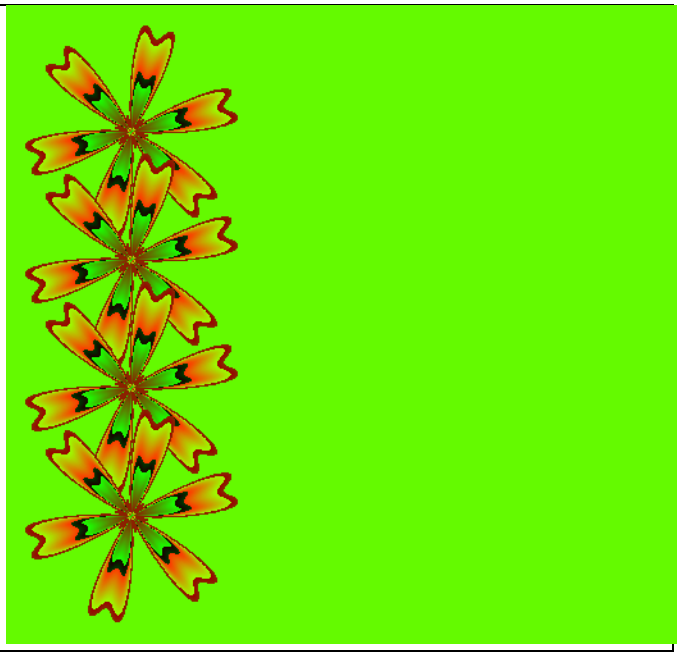
for(initializare; conditie; incrementare/decrementare)

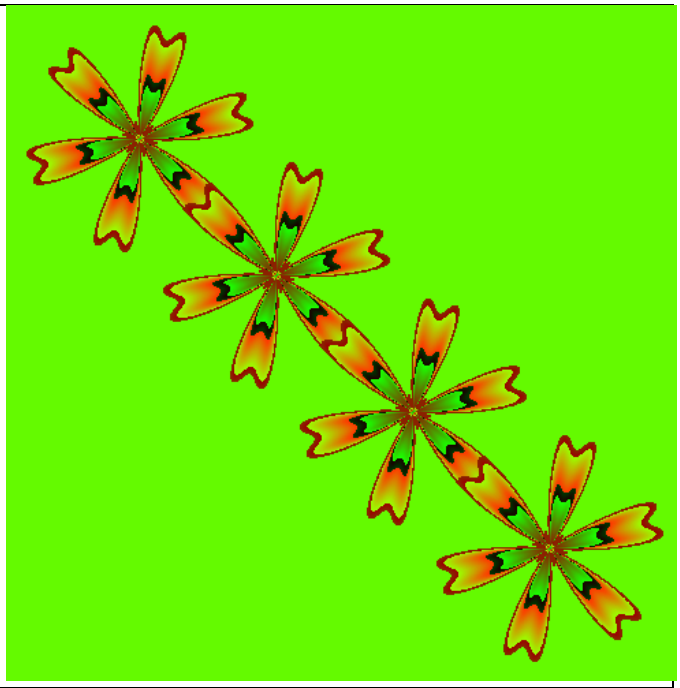
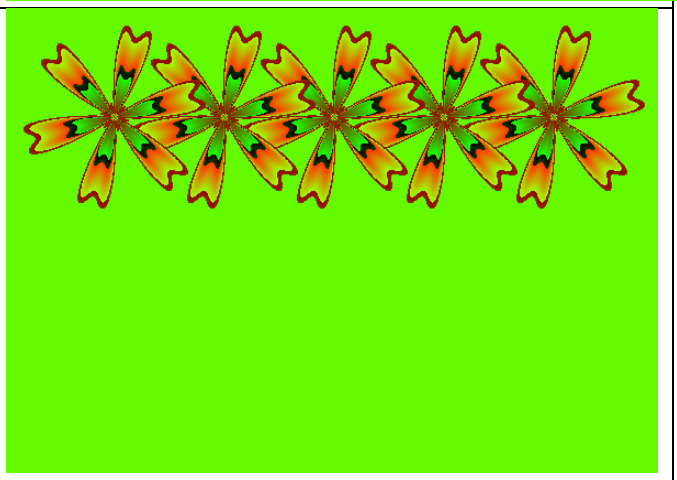
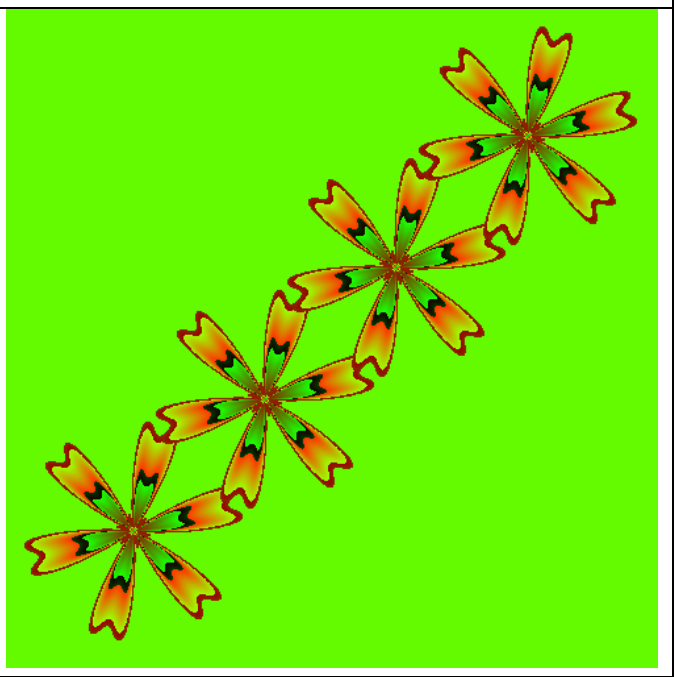
initializare = prima valoare (100)
conditie = ultima valoare (500)
incrementare = cu cat creste (100)
decrementare = cu cat scade (nu este cazul)

valoarea 100 se obtine calculind diferentele dintre valorile de pe prima coloana:
200-100=100
300-200=100
400-300=100
500-400=100

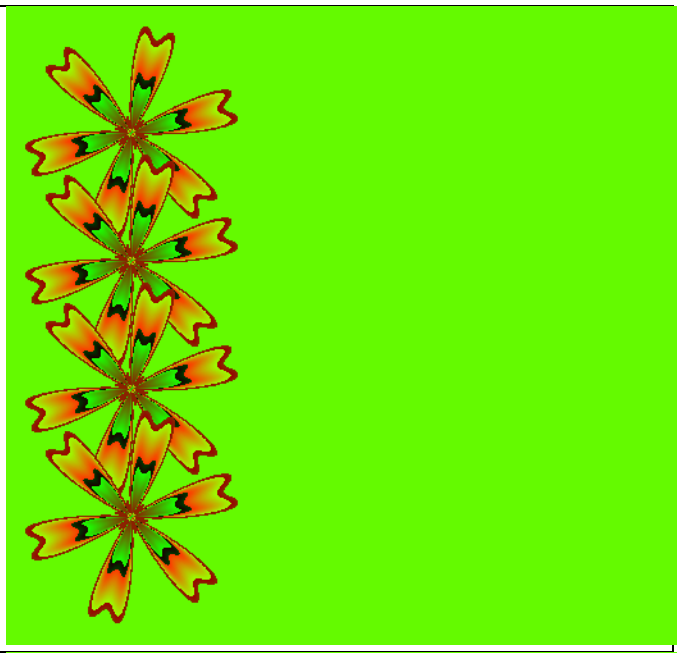
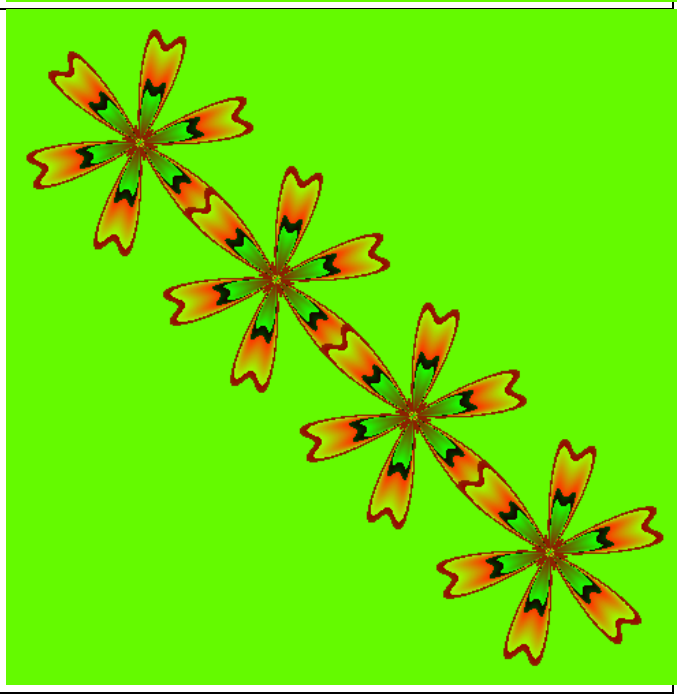
S2	*for(a=100 ; a<=500 ; a=a+100)* *floare (a, 100);*	

Exercitii:

E1	Sa se modifice setul de instructiuni ***S1*** pentru a obtine imaginea alaturata. Apoi setul ***S2***.	

E2	Sa se modifice setul de instructiuni ***S1*** pentru a obtine imaginea alaturata. Apoi setul ***S2*****.**	
E3	Sa se modifice setul de instructiuni ***S1*** pentru a obtine imaginea alaturata. Apoi setul ***S2***. *(Atentie! Florile sunt desenate de la dreapta la stanga.)*	
E4	Sa se modifice setul de instructiuni ***S1*** pentru a obtine imaginea alaturata. Apoi setul ***S2***.	

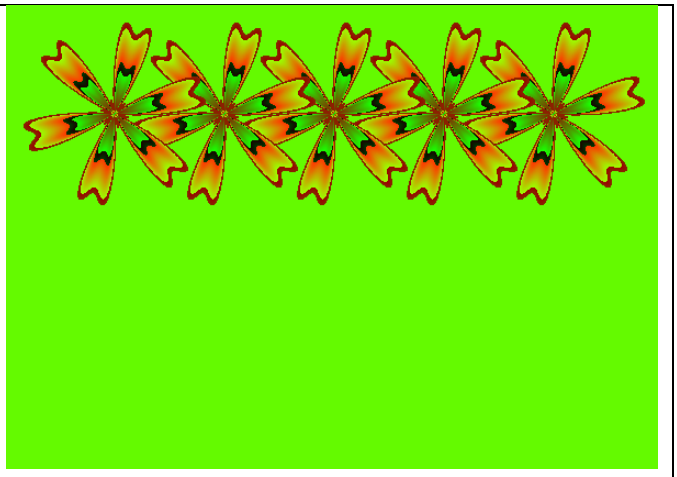
Solutii:

E1	*S1:* *floare (100, 100);* *floare (100, 200);* *floare (100, 300);* *floare (100, 400);* *S2:* *for(a=100 ; a<=400 ; a=a+100)* *floare (100, a);*	
E2	*S1:* *floare (100, 100);* *floare (200, 200);* *floare (300, 300);* *floare (400, 400);* *S2:* *for(a=100 ; a<=400 ; a=a+100)* *floare (a, a);*	

E3

```
S1:
floare (500, 100);
floare (400, 100);
floare (300, 100);
floare (200, 100);
floare (100, 100);

S2:
for( a=500 ; a>=100 ; a=a-100 )
    floare (a, 100);
```



E4

```
S1:
floare (100, 400);
floare (200, 300);
floare (300, 200);
floare (400, 100);
S2:
for( a=100 ; a<=400 ; a=a+100 )
    floare (a, 500-a);

sau:
S1:
floare (100, 400);
floare (200, 300);
floare (300, 200);
floare (400, 100);
S2:
for( a=400 ; a<=100 ; a=a-100 )
    floare (500-a, a);
```