

PENCIL code

Pencil Code

Подфункции и тестирование

Урок 6

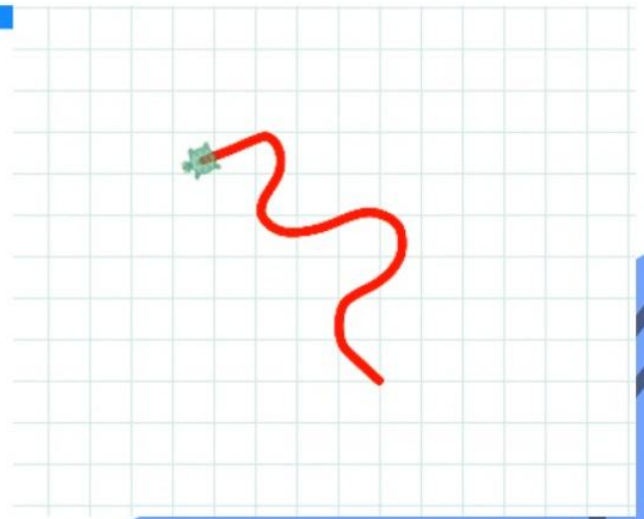


ПОДФУНКЦИЯ



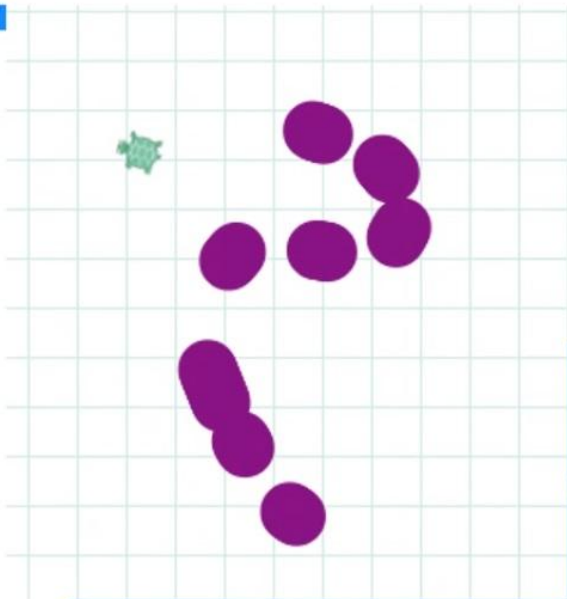
Пример 1

```
1 speed 2  
2 t = turtle  
3 t.pen ▼ red, 5  
4 forever ->  
5   t.turnto ▼ lastmouse  
6   fd ▼ 2  
7
```



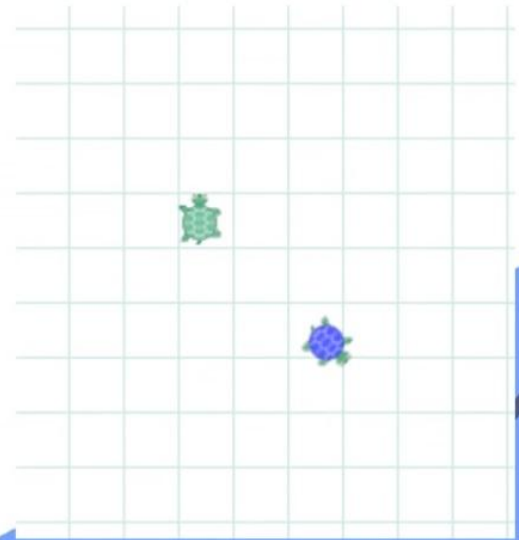
Пример 2

```
1 speed 2  
2 t = turtle  
3 forever ->  
4   t.turnto ▼ lastmouse  
5   fd ▼ 2  
6   if pressed 'x'  
7     t.dot ▼ purple, ▼ 30
```



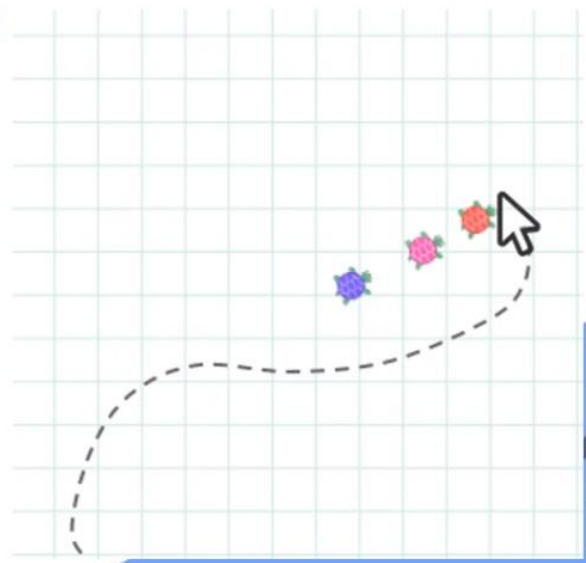
Пример 3

```
1 speed 2
2 t = turtle
3 r = new Turtle blue
4 forever ->
5   t.moveto ▼ lastmouse
6   r.turonto ▼ t
7   r.rt ▼ 180
8   r.fd ▼ 2
9   if not r.touches window
10    r.home()
```



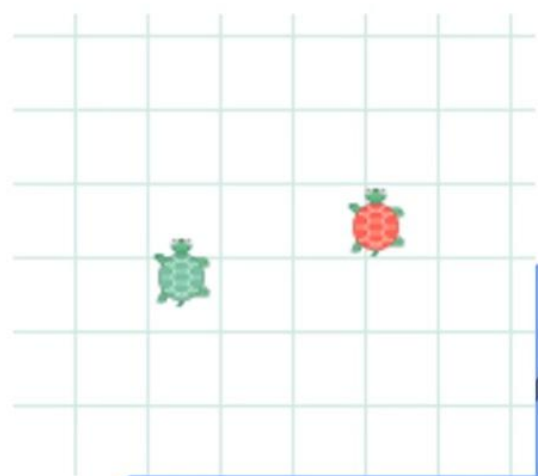
Пример 4

```
1 speed 2  
2 t = turtle  
3 forever ->  
4   t.turnto ▼ lastmouse  
5   t.fd ▼ 2  
6   if t.touches lastmouse  
7     t.wear random ▼ color
```



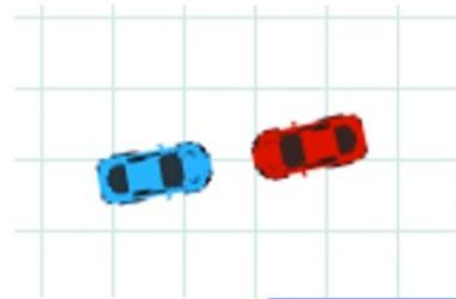
Пример 5

```
1 speed 2  
2 t = turtle  
3 s = new Turtle red  
4 s.moveto random ▼ position  
5 forever ->  
6   t.moveto ▼ lastmouse  
7   if t.touches s  
8     s.moveto random ▼ position
```



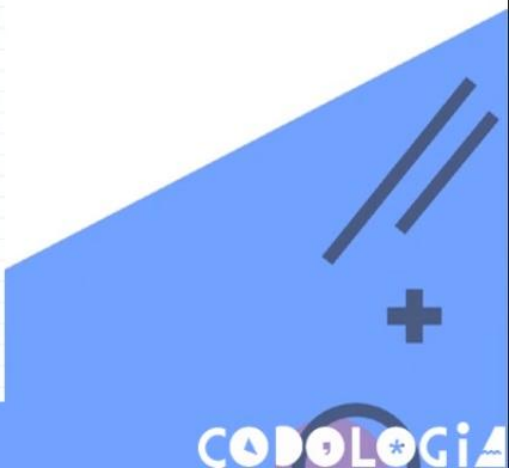
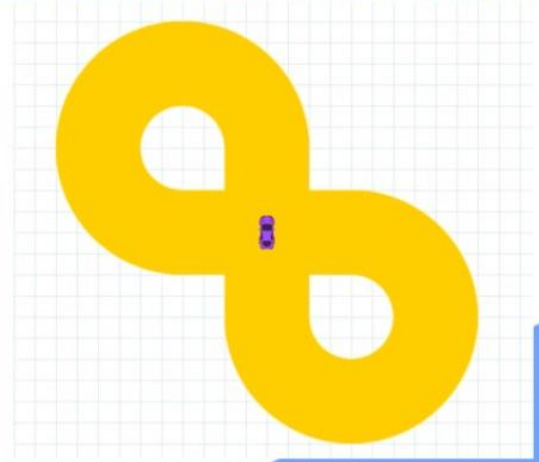
Пример 6

```
1 speed 2
2 t = turtle
3 t.wear '/img/t-top-red-car', 20
4 t.twist ▼-90
5 t.fd ▼100
6 s = new Turtle blue
7 s.wear '/img/t-top-blue-car', 20
8 s.twist ▼-90
9 forever ->
10   t.turnto ▼lastmouse
11   t.fd ▼5
12   s.turnto ▼t
13   s.fd ▼4
```



Домашнее задание

Допишите гоночную игру добавив условия IF и карту.
Сделайте столкновения машин и вылет за карту.

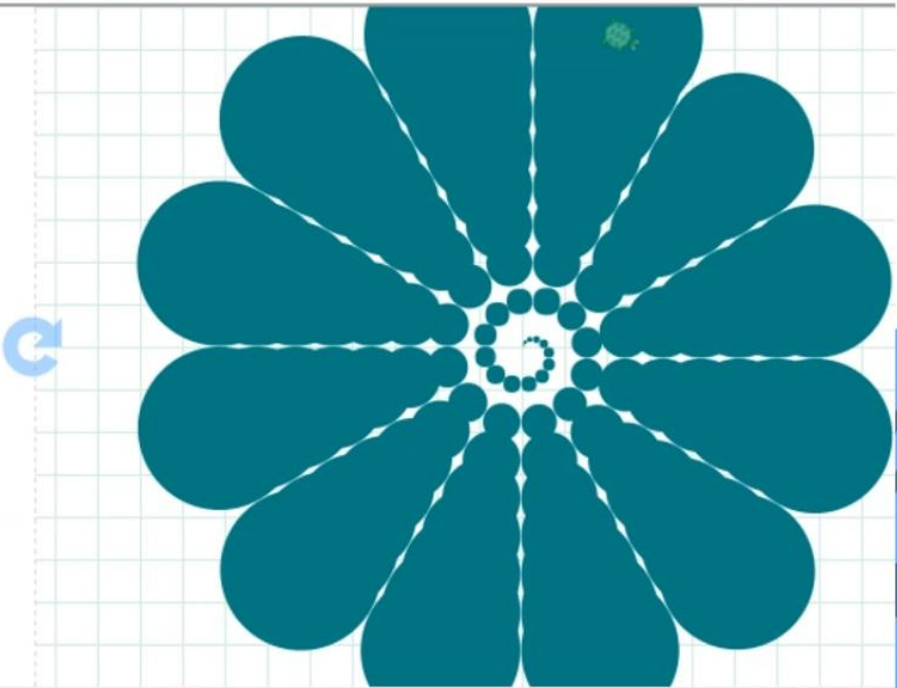


ПРОЙДИТЕ ТЕСТИРОВАНИЕ

<http://yanamal.pencilcode.net/home/debug/challenge>

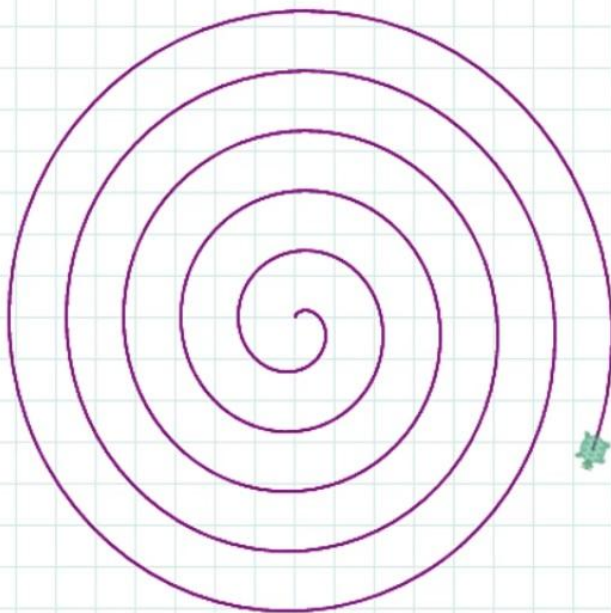
Решение

```
1 speed 100
2 for size in [1..100]
3   fd size
4   rt 30
5   dot teal, size
6
```



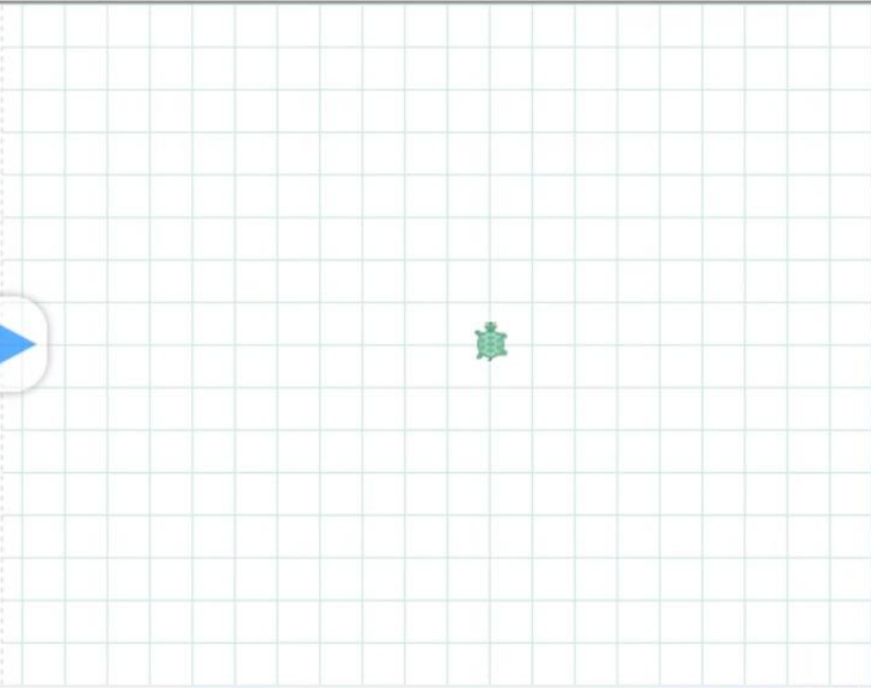
Решение

```
1 speed 100  
2 pen ▼ purple  
3 for x in [1..200]  
4   rt ▼ 10,x  
5
```



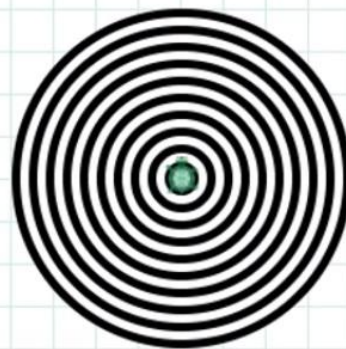
Решение

```
1 pen ▼ red  
2 click (w) ->  
3   moveto ▼ w  
4   dot (random ▼ color)  
5
```



Решение

```
1 for i in [10..1]
2   dot ▼ black, i*20
3   dot ▼ white, i*20-10
4
```



Решение

```
1 for [1..20]
2   moveto random position
3   rt 45
4   box red, 75
5   lt 45
6   bk 50
7   box blue, 100
8
```



Решение

```
1 rt ▼ 90  
2 pen ▼ black, 200  
3 fd ▼ 30  
4 pen ▼ up  
5 bk ▼ 60  
6 dot ▼ yellow, ▼ 30  
7 fd ▼ 80  
8 dot ▼ yellow, ▼ 30  
9 slide ▼ -100  
10 dot ▼ black, ▼ 30  
11 bk ▼ 80  
12 dot ▼ black, ▼ 30  
13
```



Молодцы!

