

```

1 require 'dxruby'
2 require_relative 'tama'    ###■修正1-(1) 「弾」 クラスのファイルを追加
3 require_relative 'color'
4 require_relative 'window'
5 require_relative 'hero'
6 require_relative 'item'
7
8 def hit?(hero, bomb)
9   diffx = hero.centerx - bomb.centerx
10  diffy = hero.centery - bomb.centery
11  if (diffx > -20) and (diffx < 20) and (diffy > -20) and (diffy < 20)
12    return true
13  else
14    return false
15  end
16 end
17
18 def clicked?(obj)
19   clicked = false
20   if Input.mouse_push?(M_LBUTTON)
21     diffx = Input.mouse_pos_x - obj.centerx
22     diffy = Input.mouse_pos_y - obj.centery
23     if (diffx > -20) and (diffx < 20) and (diffy > -20) and (diffy < 20)
24       clicked = true
25     end
26   end
27   return clicked
28 end
29
30 def game_over(backwindow, hero)
31   backwindow.draw_endback
32   hero.draw
33   Window.update
34   sleep 2
35   exit
36 end
37
38 backwindow=BackWindow.new
39 hero = Hero.new(BackWindow::WINDOW_WIDTH / 2, BackWindow::SKYLINE)
40
41 tamas = []    ###■修正2-(1) 複数の弾を入れるための配列を作る
42
43 bomb1 = Bomb.new
44 bomb2 = Bomb.new
45 bomb3 = Bomb.new
46 apple1 = Apple.new
47 apple2 = Apple.new
48 score = 0
49 click_count = 0
50
51 Window.loop do
52   hero.move
53   bomb1.drop
54   bomb2.drop
55   bomb3.drop
56   apple1.drop
57   apple2.drop
58
59   backwindow.draw
60   hero.draw
61   bomb1.draw
62   bomb2.draw
63   bomb3.draw
64   apple1.draw

```

main_tama2.rb

```
65 apple2.draw
66
67 if Input.key_push?(K_SPACE)          ###■修正2-(2) スペースキーが押されたら
68     tama = Tama.new(hero.centerx, hero.centery)  ###■ Ruby君と同じ位置に弾を作って
69     temas << tama                      ###■ 配列に入れる
70 end                                    ###■
71 temas.each do |tama|                ###■修正2-(3) 配列に入っている弾の1つ1つについて
72     tama.move                        ###■ 弾を動かして
73     tama.draw                        ###■ 弾を表示する
74 end                                    ###■
75
76 if hit?(hero, apple1)
77     score = score + apple1.get_score
78     apple1.reset
79 end
80 if hit?(hero, apple2)
81     score = score + apple2.get_score
82     apple2.reset
83 end
84
85 if hit?(hero, bomb1) or hit?(hero, bomb2) or hit?(hero, bomb3)
86     game_over(backwindow, hero)
87 end
88
89 if clicked?(bomb1) or clicked?(bomb2) or clicked?(bomb3)
90     game_over(backwindow, hero)
91 end
92
93 if clicked?(apple1)
94     score = score + apple1.get_score
95     click_count = click_count + 1
96     apple1.reset
97 end
98
99 if clicked?(apple2)
100     score = score + apple2.get_score
101     click_count = click_count + 1
102     apple2.reset
103 end
104
105 backwindow.write_char(50, 400, "あなたの得点は#{score}点(クリック#{click_count}回)", Color::WHITE )
106
107 break if Input.key_push?(K_ESCAPE)
108 end
```