

Boolean/Conditional Statements Exercise

- Write a Ruby program to check three given integers (a:smallest,b,c:largest) and return true if the three values are equally spaced, so the difference between a and b is the same as the difference between b and c.

```
a = 1
b = 2
c = 3
if (a-b) == (b-c)
  puts "same"
end
```

- Write a Ruby program to check three given integers a, b, c and return true if one of b or c is close (difference out of a by at most 1), while the other is far, difference from both other values by 3 or more.

```
a = 1
b = 2
c = 3
if (c-b) == 1
  puts "true"
end
if not (c-a) == 1
  puts "far"
end
```

- Write a Ruby program to check two given integers, each in the range 10..99, return true if there is a digit that appears in both numbers.

- Write a Ruby program to check two given integers and return true if either one is 11 or their sum or difference is 11 otherwise return false.

```
a = 11
b = 2
if (a == 11 || b == 11) || (a+b == 11 || a-b == 11)
  puts "true"
else
  puts "false"
end
```

- Write a Ruby program to check whether 2 strings start and end with different letters and both of them doesn't include letter "x".

```
a = "reem"
b = "bayader"
if {(a.start_with?(a[0]) != b.start_with?(b[0])) && (a.end_with?(a[a.length()-1]) != b.end_with?(b[b.length()-1]))} && (a.include? "x" && b.include? "x")
```

```
puts "t"
end
```

- Write a Ruby program that checks whether a string contains a vowel.

```
arr = ["A", "E", "I", "O", "U", "Y", "W"]
for i in arr do
  if s1.upcase.include? i
    p true
  end
end
```

- Write a Ruby program that keeps getting an integer at the console less than 100 score from the user, and exists when he inserts -1.

If he inserted a number out of range, print the message :”Please insert a score from 0 to 100”.

Your program shall print out the corresponding evaluation as follows:

0-49:fail.

50-60:pass

60-70:good

70-80:very good

80-90:excellent

90-100:incredible

```
p "enter your score"
input = gets.chomp
if input.between?(0,49)
  p "fail"
else if input.between?(50,59)
  p "pass"
else if input.between?(60,69)
  p "good"
else if input.between?(70,79)
  p "very good"
else if input.between?(80,89)
  p "excellent"
else if input.between?(90,100)
  p "incredible"
end
```