

**SHORT SCREEN TEST 02 OF ITP**

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MARKs

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Closed Date: 13h00 (GMT+), 08 – NOV – 2022 WEEK 10

1. QUIZ 1

Select which of the following statements are true:

- ☒ Arrays store multiple elements
- ☒ The size of an array can be obtained with `.length`
- ☒ Individual array elements need to be accessed using an index
- ☐ Arrays typically start indexing at one
- ☒ Arrays can contain arrays

Submit

## 2. QUIZ 2

Which of the following statements are true:

- ☒ In Ruby we can represent complex types using classes
- ☒ In Ruby we can represent complex types using structs
- ☒ In Ruby we can represent custom types using modules
- ☒ In Ruby complex types can be components of other complex types
- ☐ Once you define a type you can assign values to the fields

Submit

### 3. QUIZ 3

2. a symbol that tells the compiler or interpreter to perform specific mathematical, relational or logical operation and produce final result.

3. determines the format in which data is stored.

4. a word that is reserved by a program because the word has a special meaning.

5. Places a value in a variable or constant.

6. produces a value from an expression

**Re-order the following terms so as to best match the order of the statements above:**

statement

operator

type

keyword

assignment operator

evaluation

Submit

#### 4. QUIZ 4

Do you recall which of the following are Structured Programming Principles?

☒ Selection

☒ Modularisation

☒ Iteration

☐ Keywords

☒ Sequence

☐ Definitions

Submit

## 5. PROGRAM 1

```
def main()  
  # put your code here  
  print('Enter your name: ')  
  name = gets.chomp  
  puts('Hello, ' + name + "!!")  
end
```

main

The screenshot displays a code editor with a dark theme. On the left, a sidebar shows the 'Description' tab, which includes a 'Feedback' section with a green checkmark and the word 'Passed' in large green letters. Below this, a 'TESTCASES' section indicates '2 / 2 passed'. Two test cases are listed: 'Checking the example' and 'Hidden testcase', both with green checkmarks. The main editor area shows a file named 'greet.rb' with the following Ruby code:

```
1  
2 def main()  
3   # put your code here  
4   print('Enter your name: ')  
5   name = gets.chomp  
6   puts('Hello, ' + name + "!!")  
7 end  
8  
9 main
```

## 6. PROGRAM 2

```
def main()
  # put your code here.
  i = 0
  total = 0
  while i < 10
    i += 1
    print('Enter integer ' + i.to_s + ': ')
    number = gets.chomp
    total += number.to_i
  end
  puts('Total is: ' + total.to_s)
end

main()
```



✓ Feedback

1 2 3 4 5

Passed

TESTCASES1 / 1 passed

test 1✓

```
1
2 def main()
3   # put your code here.
4   i = 0
5   total = 0
6   while i < 10
7     i += 1
8     print('Enter integer ' + i.to_s + ': ')
9     number = gets.chomp
10    total += number.to_i
11  end
12  puts('Total is: ' + total.to_s)
13 end
14
15 main()
```

## 7. PROGRAM 3

```
def read_array()
  # put code here
  print('How many lines are you entering? ')
  num_line = gets.chomp.to_i
  i = 0
  lines = []
  while i < num_line
    i += 1
```

```
    print('Enter text: ')
    str = gets.chomp.to_s
    lines << str
  end
  return lines
end
```

```
def print_array(a)
  # put code here
  puts('Printing lines:')
  num = a.length
  i = 0
  while i < num
    puts(i.to_s + ' ' + a[i])
    i += 1
  end
end
```

```
def main()
  # put code here
  a = read_array()
  print_array(a)
end
```

```
main()
```

Description

✓ Feedback

1

Passed

TESTCASES2 / 2 passed

Test 1✓

Hidden testcase✓

read\_and\_print\_arr...

```
1
2 def read_array()
3   # put code here
4   print('How many lines are you entering? ')
5   num_line = gets.chomp.to_i
6   i = 0
7   lines = []
8   while i < num_line
9     i += 1
10    print('Enter text: ')
11    str = gets.chomp.to_s
12    lines << str
13  end
14  return lines
15 end
```

/home/read\_and\_print\_array.rb 34:7 Spaces: 2 (Auto) All changes saved

ConsoleTerminal

▶ Run ✓ Mar

How many lines are you entering? 1  
Enter text: mi  
Printing lines:  
0 mi

✓ Program exited with code 0

8. PROGRAM 4

```
Dog = Struct.new(:id, :breed, :name)
```

```
require './dog' # put your record definition in student.rb
```

```
def main()  
  # put your code here  
  dog = Dog.new(10, 'Kelpie Cross', 'Bitza')  
  puts(dog.id)  
  puts(dog.breed)  
  puts(dog.name)  
end
```

```
main()
```

Description

✓ Feedback

1 2 3 4 5 6 7 8 9

Passed

TESTCASES 1 / 1 passed

> Test 2 ✓

test\_record.rb dog.rb

1 require './dog' # put your record definition in student  
2  
3  
4 def main()  
5 # put your code here  
6 dog = Dog.new(10, 'Kelpie Cross', 'Bitza')  
7 puts(dog.id)  
8 puts(dog.breed)  
9 puts(dog.name)  
10 end  
11  
12 main()

/home/test\_record.rb 7:17 Spaces: 4 (Auto) All changes saved

Console Terminal Run Mark

10  
Kelpie Cross  
Bitza