Producer = PRIORITY_LOW
Consumer = PRIORITY_HIGH

```
entry_point(): Entering main()
Starting RTOS
Cosumer Task
Producer Task
Line 68, receving witch status: 0

Cosumer Task
Losumer Task
ng switch status: 0
Producer Task
Line 68, receving switch status:

Cosumer Task
Losumer Task
ng switch status: 0
Producer Task
Line 68, receving switch status:

Cosumer Task
Losumer Task
ng switch status: 1
Producer Task
Line 68, receving switch status:

Cosumer Task
Losumer Task
ng switch status: 0
Producer Task
Line 68, receving switch status:

Cosumer Task
Losumer Task
ng switch status: 1
Producer Task
Line 68, receving switch status:
```

Observation:

1) Consumer Task Starts Initially, does not print printf statement after xQueueReceive(); as nothing is in Queue to receive
2) Due to context switching, task switches back to higher priority resulting in jumbled printf statements.

Producer = PRIORITY_HIGH
Consumer = PRIORITY_LOW

```
entry_point(): Entering main()
Starting RTOS
Producer Task
Line 55, sending switch status: 0
Cosumer Task
Line 68, receving switch status: 0
Cosumer Task
Producer Task
Line 55, sending switch status: 00 Line 68, receving switch status: 0
Cosumer Task
Producer Task
Line 55, sending switch status: 11 Line 68, receving switch status: 1
Cosumer Task
Producer Task
Line 55, sending switch status: 00 Line 68, receving switch status: 0
Cosumer Task
Producer Task
Line 55, sending switch status: 00 Line 68, receving switch status: 0
Cosumer Task
Producer Task
Line 55, sending switch status: 11 Line 68, receving switch status: 1
Cosumer Task
Producer Task
Line 55, sending switch status: 00 Line 68, receving switch status: 0
Cosumer Task
Producer Task
Line 55, sending switch status: 00 Line 68, receving switch status: 0
Cosumer Task
Producer Task
Line 55, sending switch status: 00 Line 68, receving switch status: 0
Cosumer Task
Producer Task
Line 55, sending switch status: 00 Line 68, receving switch status: 0
```

Observation:

1) Producer Task starts initially, with max block time set to default 0.
2) Since we have vTaskDelay(1000); Consumer task prints before xQueueReceive and waits for the value due to portMAX_DELAY
3) But since the producer task has higher priority it goes back to with context switching.

Producer = PRIORITY_LOW
Consumer = PRIORITY_LOW

```
entry_point(): Entering main()
Starting RTOS
Cosumer Task
Producer Task
Line 55, sending sswitch status: 0 Line 68, receving switch status: 0
Cosumer Task
Producer Task
Line 55, sending switch status: 00 Line 68, receving switch status: 0
Cosumer Task
Producer Task
Line 55, sending switch status: 11 Line 68, receving switch status: 1
Cosumer Task
Producer Task
Line 55, sending switch status: 00 Line 68, receving switch status: 0
Cosumer Task
Producer Task
Line 55, sending switch status: 00 Line 68, receving switch status: 0
Cosumer Task
Producer Task
Line 55, sending switch status: 11 Line 68, receving switch status: 1
Cosumer Task
Producer Task
Line 55, sending switch status: 00 Line 68, receving switch status: 0
Cosumer Task
Producer Task
Line 55, sending switch status: 00 Line 68, receving switch status: 0
Cosumer Task
Producer Task
Line 55, sending switch status: 11 Line 68, receving switch status: 1
Cosumer Task
Producer Task
Line 55, sending switch status: 00 Line 68, receving switch status: 0
Cosumer Task
Producer Task
```

Observations:

1) Consumer task starts initially and since there is nothing to receive in xQueueReceive, printf message after that does not print as it is in portMAX_DELAY.
2) Since producer task has vTaskDelay(1000);, and both tasks having the same priority round-robin scheduling occurs, consumer task keeps waiting for switch_value and stops at xQueueReceive.