

Robótica - ACF Fund II - Lógica de Programação - 2 Procedimentos

Como estão todos?

Conseguiram realizar o item 1

Básico? Espero que sim!

O próximo e mais desafiador será
o item 2 Procedimentos.

Gabarito das etapas 1 - 8 do
Básico está nas próximas páginas.

E o gabarito do item 2
Procedimentos mandarei na próxima
semana.

Boa sorte!

Oswaldo



Gabarito - 1 Básico

1-1

A Scratch script for a robot on a ramp. The script consists of a green **Move** block with a right arrow pointing to a grey **Up** block and a grey **Lightbulb** block. A white hand cursor is clicking the green **Move** block. The robot is on a ramp made of three blue tiles.

MAIN

| | | |
|----|-----------|-----------|
| Up | Up | Lightbulb |
| Up | Lightbulb | Up |
| Up | Up | Up |

1-3

A Scratch script for a robot on a staircase. The script consists of a green **Move** block with a right arrow pointing to a grey **Up** block, a grey **Lightbulb** block, a grey **Turn** block, a grey **Turn** block, and a grey **Up** block. The robot is on a staircase made of four blue tiles.

MAIN

| | | | | |
|----|-----------|------|------|----|
| Up | Lightbulb | Turn | Turn | Up |
| Up | Lightbulb | Up | Up | Up |
| Up | Lightbulb | Turn | Turn | Up |
| Up | Lightbulb | Up | Up | Up |

1-2

A Scratch script for a robot on a ramp. The script consists of a green **Move** block with a right arrow pointing to a grey **Up** block, a grey **Lightbulb** block, a grey **Turn** block, a grey **Turn** block, and a grey **Up** block. The robot is on a ramp made of three blue tiles.

MAIN

| | | | | |
|----|-----------|------|------|----|
| Up | Lightbulb | Turn | Turn | Up |
| Up | Lightbulb | Up | Up | Up |
| Up | Lightbulb | Turn | Turn | Up |
| Up | Lightbulb | Up | Up | Up |

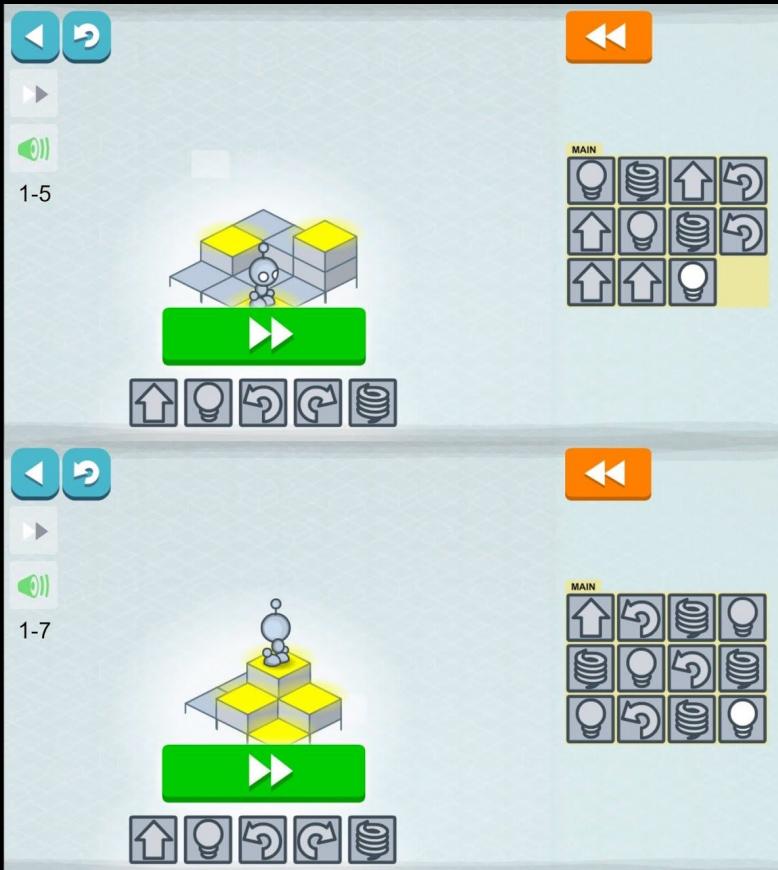
1-4

A Scratch script for a robot on a tall staircase. The script consists of a green **Move** block with a right arrow pointing to a grey **Up** block, a grey **Lightbulb** block, a grey **Turn** block, a grey **Turn** block, and a grey **Up** block. The robot is on a staircase made of eight blue tiles.

MAIN

| | | | | |
|----|-----------|------|------|----|
| Up | Lightbulb | Turn | Turn | Up |
| Up | Lightbulb | Up | Up | Up |
| Up | Lightbulb | Turn | Turn | Up |
| Up | Lightbulb | Up | Up | Up |

Gabarito - 1 Básico



1-5

Robot on a 3x3 grid with yellow start and end squares. The robot starts at the bottom-left and needs to reach the top-right.

MAIN

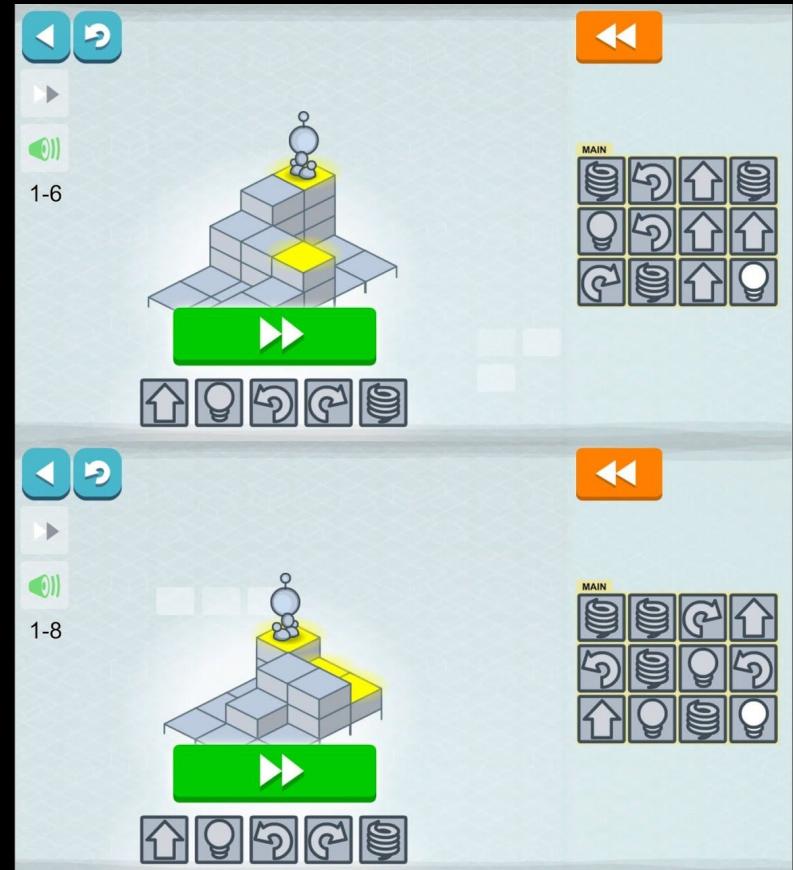
| | | | | |
|----|-----------|-----------|----|-----------|
| Up | Spiral | Lightbulb | Up | Spiral |
| Up | Lightbulb | Spiral | Up | Spiral |
| Up | Lightbulb | Spiral | Up | Lightbulb |

1-7

Robot on a 3x3 grid with yellow start and end squares. The robot starts at the bottom-left and needs to reach the top-right.

MAIN

| | | | | |
|-----------|-----------|-----------|----|-----------|
| Up | Spiral | Lightbulb | Up | Lightbulb |
| Spiral | Lightbulb | Spiral | Up | Spiral |
| Lightbulb | Spiral | Lightbulb | Up | Spiral |



1-6

Robot on a 4x4 grid with yellow start and end squares. The robot starts at the bottom-left and needs to reach the top-right.

MAIN

| | | | |
|-----------|-----------|-----------|-----------|
| Spiral | Lightbulb | Up | Spiral |
| Lightbulb | Spiral | Up | Lightbulb |
| Up | Lightbulb | Spiral | Up |
| Spiral | Up | Lightbulb | Up |

1-8

Robot on a 4x4 grid with yellow start and end squares. The robot starts at the bottom-left and needs to reach the top-right.

MAIN

| | | | |
|-----------|-----------|-----------|-----------|
| Spiral | Lightbulb | Up | Spiral |
| Lightbulb | Spiral | Up | Lightbulb |
| Up | Lightbulb | Spiral | Up |
| Spiral | Up | Lightbulb | Up |