

Hack4Kids – Robotron

Logique de programmation
Coding Logic



Hack4Kids@Deloitte
By SECURITYMADEIN.LU

Code?

Step 1 – Observe

Step 2 – Write code

Step 3 – Debug

Step 4 – Run app

Etape 1 – Observe

Etape 2 – Programme

Etape 3 – Corrige et optimise

Etape 4 – Lance l'application



Hack4Kids@Deloitte
By SECURITYMADEIN.LU

Code Principal






Main Code

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Librairies

Commandes

Code

-  Move
-  Turn Right
-  Turn Left
-  Call Library 1
-  Call Library 2

Library 1

1	2	3	4	5
---	---	---	---	---

Library 2

1	2	3	4	5
---	---	---	---	---



Hack4Kids@Deloitte
By SECURITYMADEIN.LU

Hack4Kids - Deloitte - Human Robotron - Coding



Challenge

Use Librairies to create
the shortest code

Utilise les librairies pour créer
le code le plus court

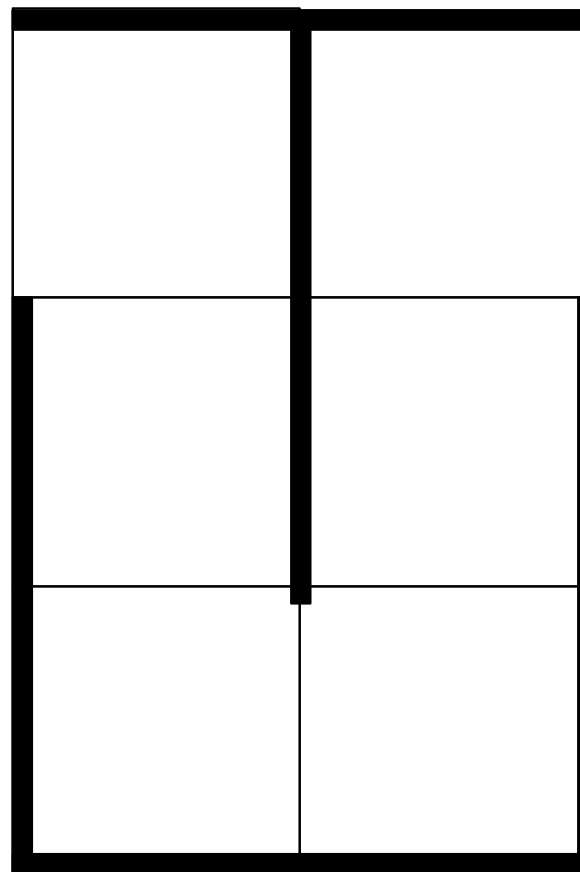
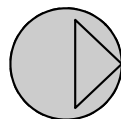


Hack4Kids@Deloitte
By SECURITYMADEIN.LU



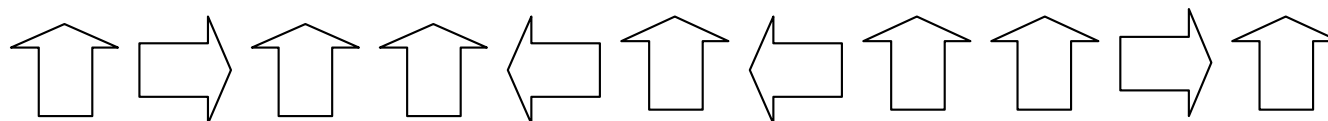
Hack4Kids@Deloitte
By SECURITYMADEIN.LU

Depart
Start



Fin
End

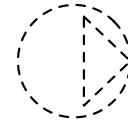
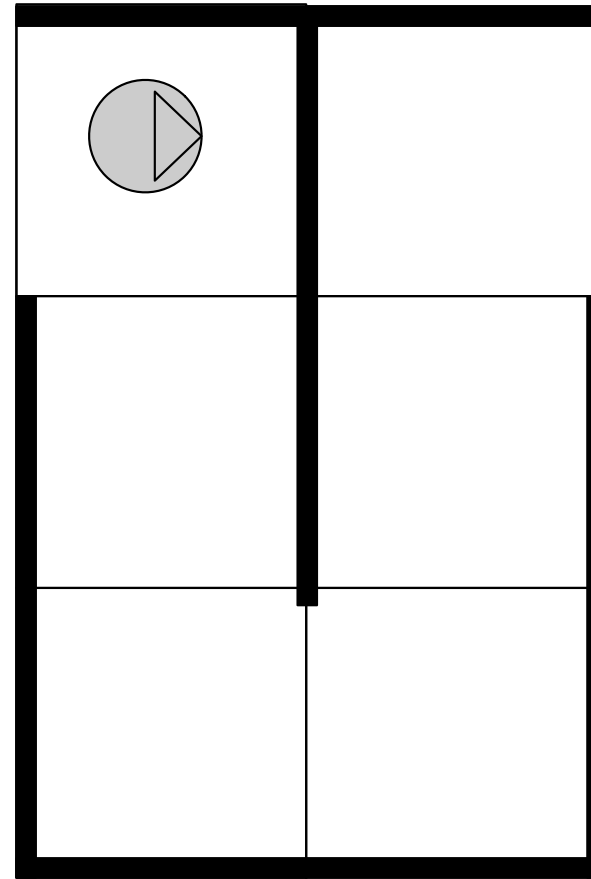
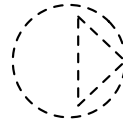
Code





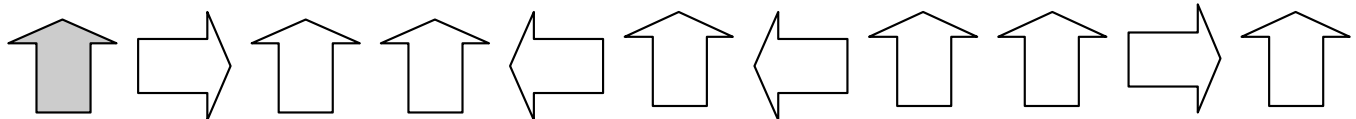
Hack4Kids@Deloitte
By SECURITYMADEIN.LU

Depart
Start



Fin
End

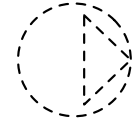
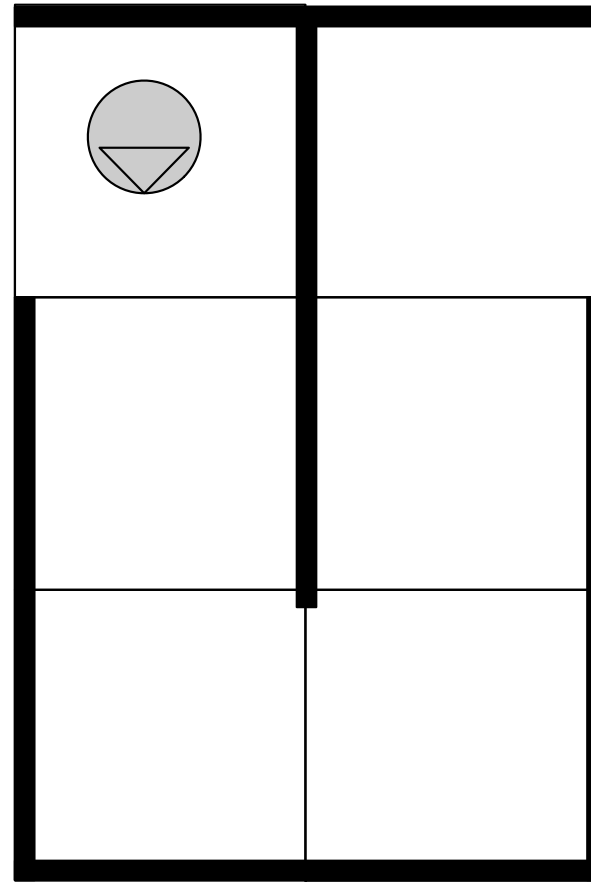
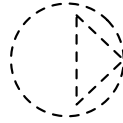
Code





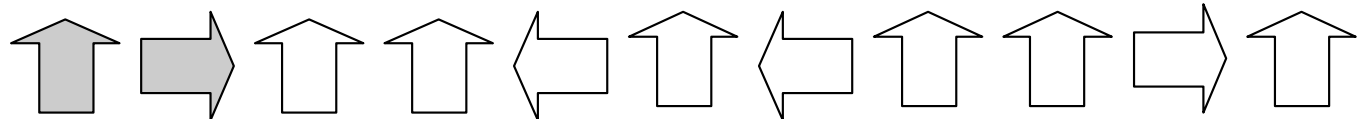
Hack4Kids@Deloitte
By SECURITYMADEIN.LU

Depart
Start



Fin
End

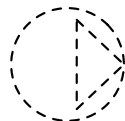
Code



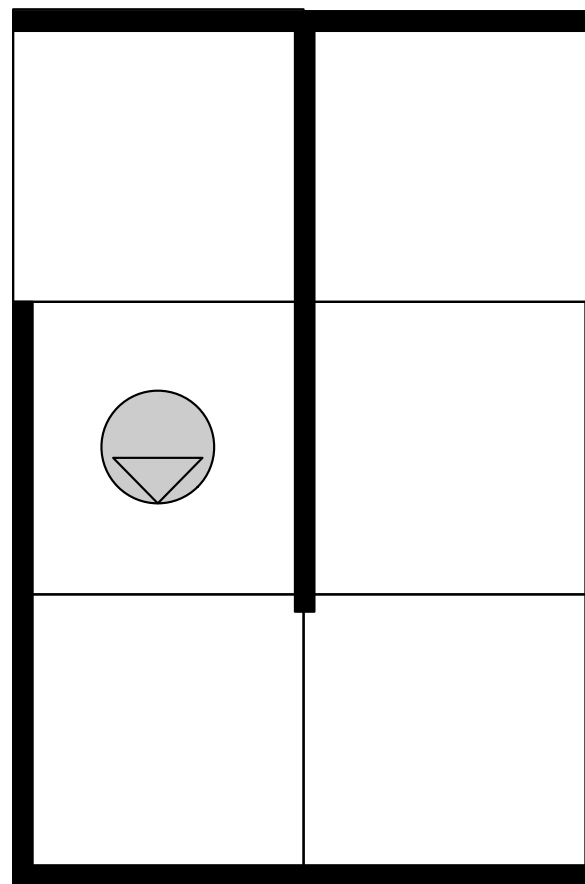


Hack4Kids@Deloitte
By SECURITYMADEIN.LU

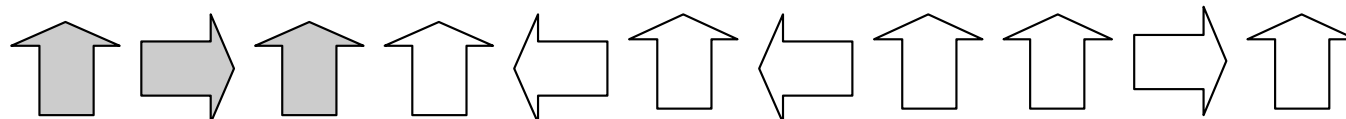
Depart
Start



Fin
End



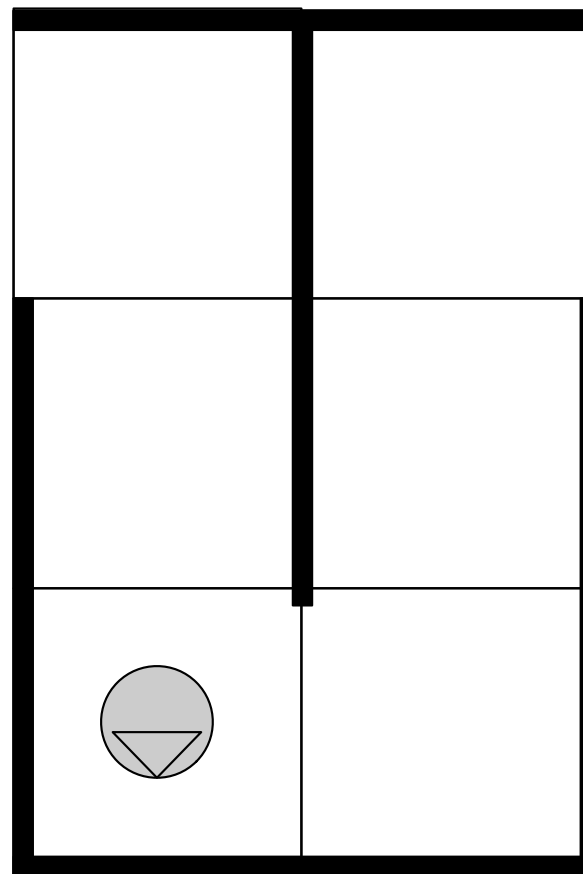
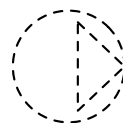
Code





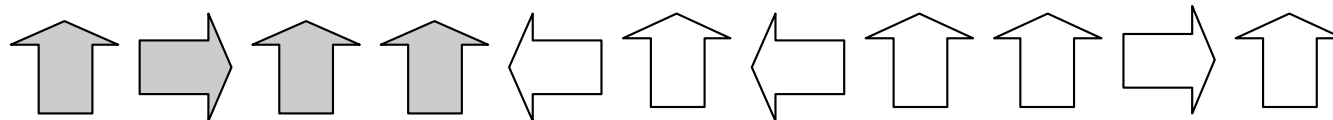
Hack4Kids@Deloitte
By SECURITYMADEIN.LU

Depart
Start



Fin
End

Code



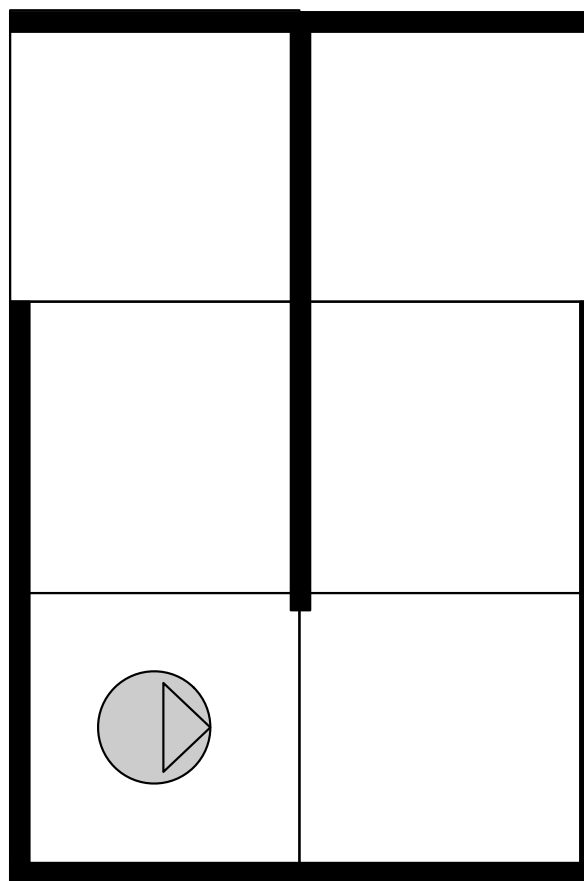


Hack4Kids@Deloitte
By SECURITYMADEIN.LU

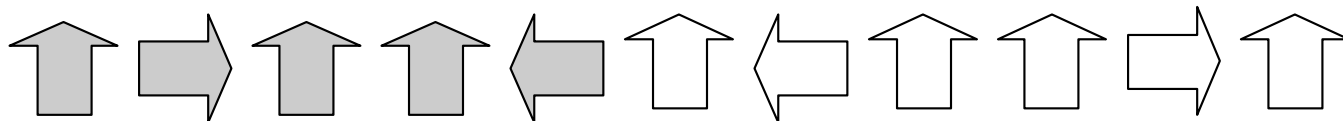
Depart
Start



Fin
End



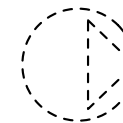
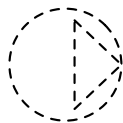
Code



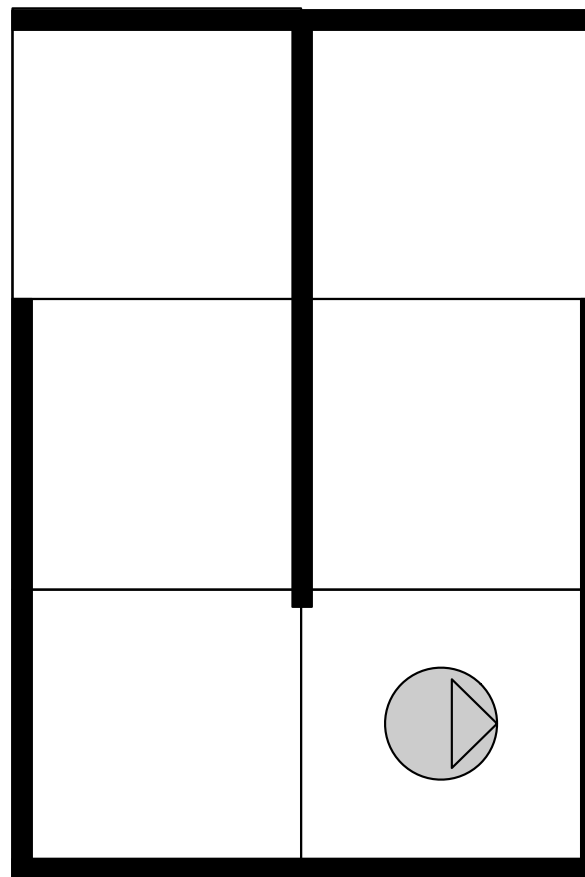


Hack4Kids@Deloitte
By SECURITYMADEIN.LU

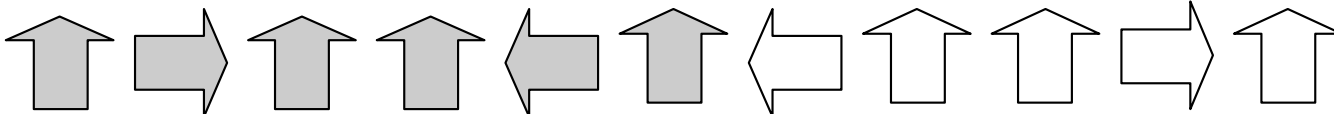
Depart
Start



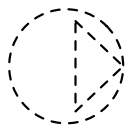
Fin
End



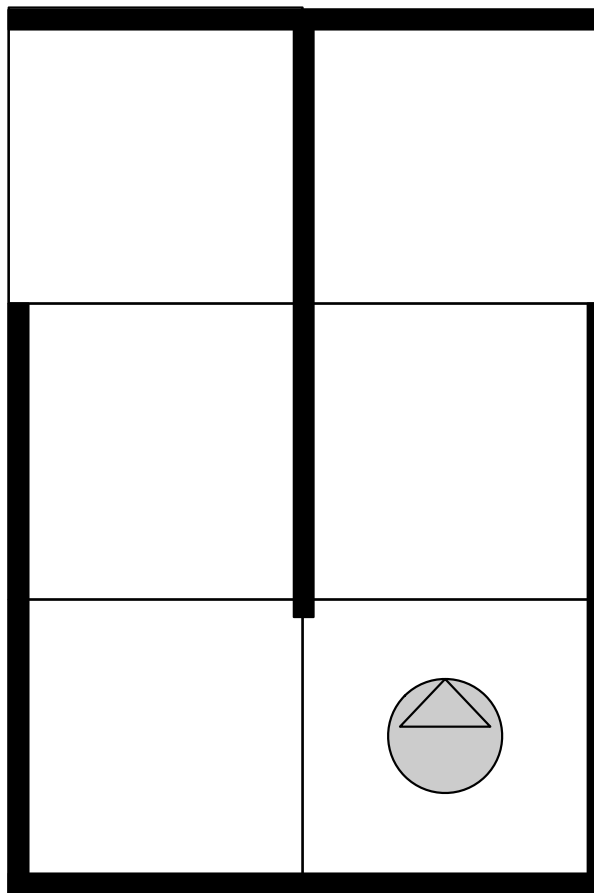
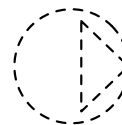
Code



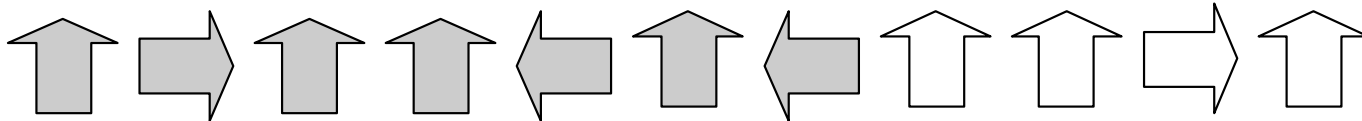
Depart
Start



Fin
End



Code

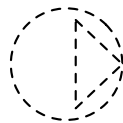


Hack4Kids@Deloitte
By SECURITYMADEIN.LU

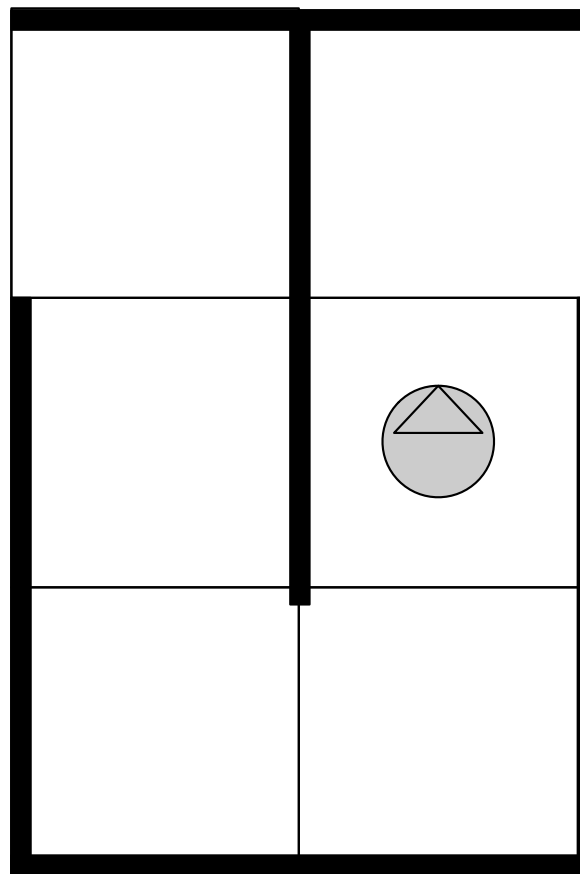
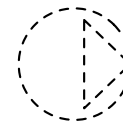


Hack4Kids@Deloitte
By SECURITYMADEIN.LU

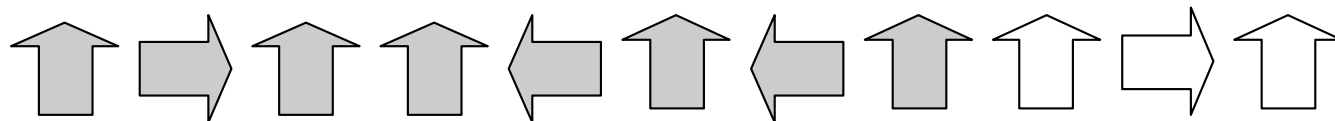
Depart
Start



Fin
End



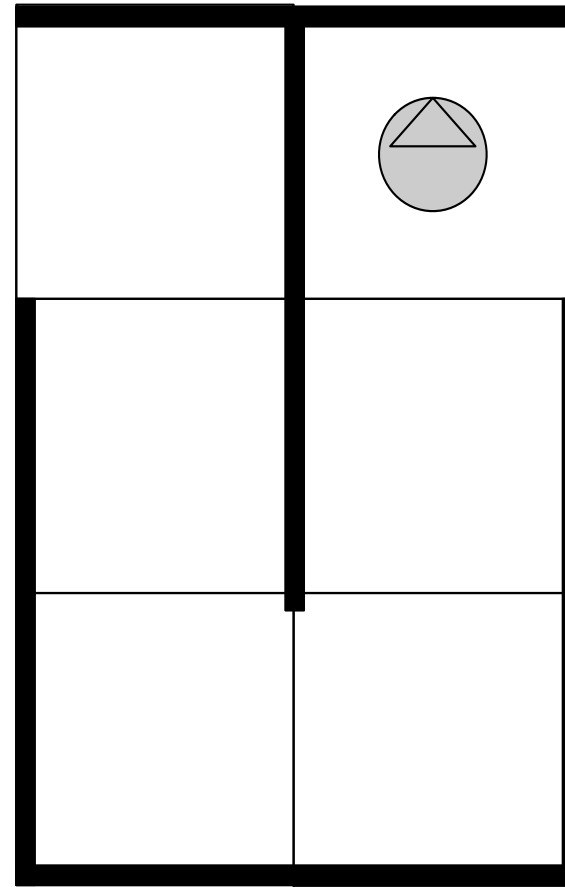
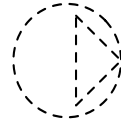
Code



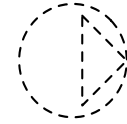


Hack4Kids@Deloitte
By SECURITYMADEIN.LU

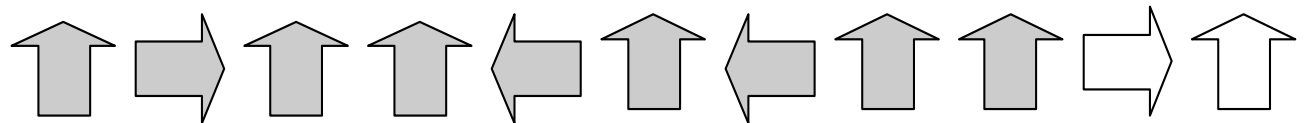
Depart
Start



Fin
End



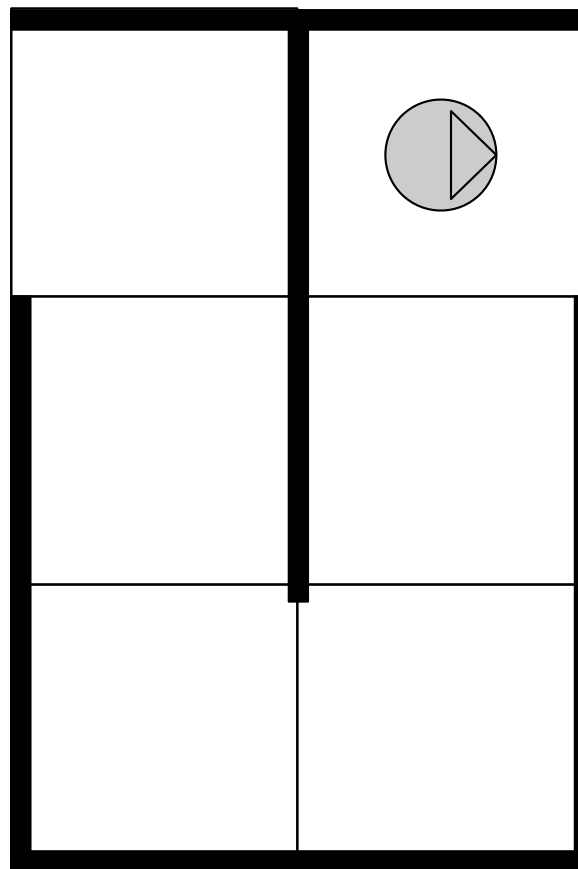
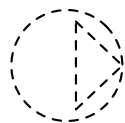
Code



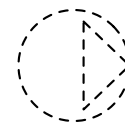


Hack4Kids@PwC
By SECURITYMADEIN.LU

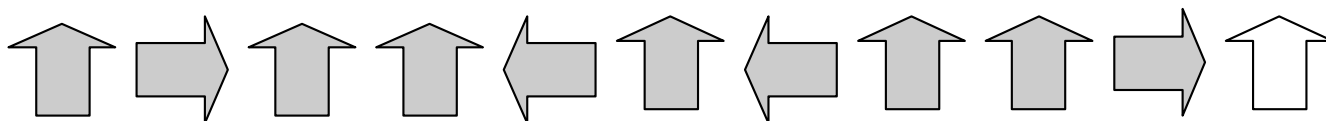
Depart
Start



Fin
End



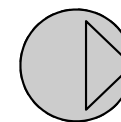
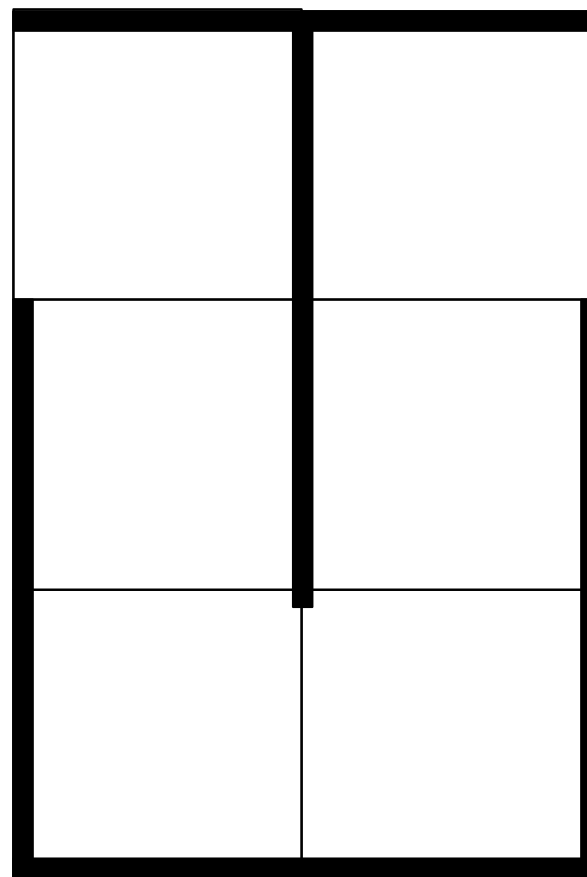
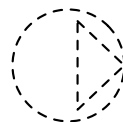
Code





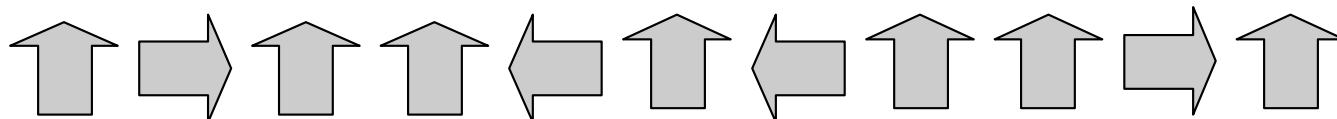
Hack4Kids@Deloitte
By SECURITYMADEIN.LU

Depart
Start



Fin
End

Code



Challenge?

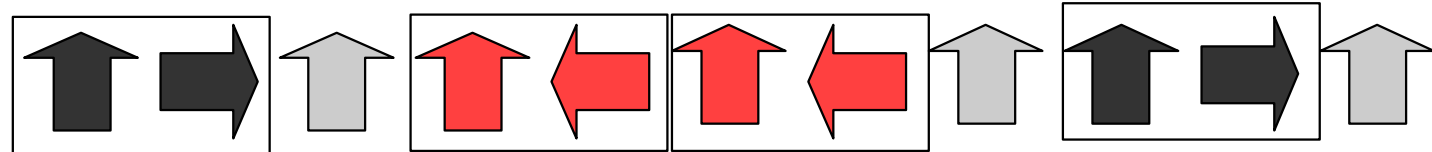
Use librairies
Utilise les Librairies



Hack4Kids@Deloitte
By SECURITYMADEIN.LU

Old Code

11 instructions



Librairie

L1

L2

L2

L1



Hack4Kids@Deloitte
By SECURITYMADEIN.LU

New Code

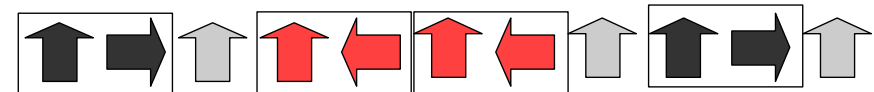
7 instructions



Hack4Kids@Deloitte
By SECURITYMADEIN.LU

Old Code

11 instructions



Librairie

L1

L2

L2

L1