



LEARN TO PROGRAM

ICAROS PROJECT IES MAR DE ALBORÁN









INSTRUCTION SET

TR -TURN RIGHT
TL - TURN LEFT
A - ADVANCE







INSTRUCTION SET. LOOPS

WHILE NB
Y
END

ICAROS will do Y while there is nothing blocking it.







INSTRUCTION SET. LOOPS

FOR X Y END

ICAROS will do Y X times.

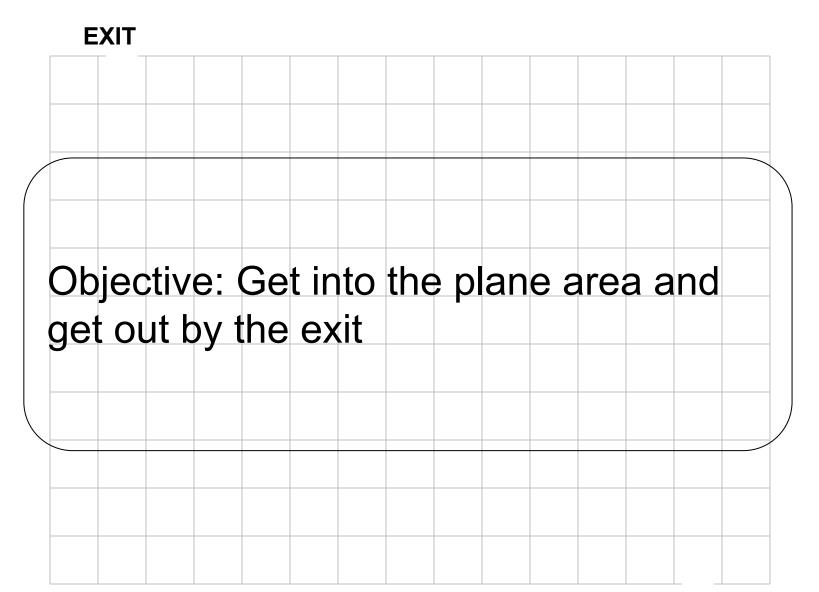






INSTRUCTION SET. LOOPS

Is an obstacle. ICAROS has to avoid it.











Exercise 1 **EXIT**









Exercise 2 **EXIT**









Exercise 3 **EXIT**



Exercise 4 **EXIT**













NEW INSTRUCTION

•TAKE - Take a price

Exercise 5









Exercise 6









Exercise 7









Exercise 8









Exercise 9









Exercise 10









Exercise 11









Exercise 12









Exercise 13















NEW INSTRUCTION SET

- •VAR = VALUE
- •VAR++
- •VAR -
- •PRINT VAR

Print X - displays in the remote the number X.







EXAMPLES

- \bullet STEPS = 0
- •STEPS ++
- •STEPS ++
- PRINT STEPS

The former code will display 2 in the remote.







NEW INSTRUCTION SET

IF PRICE THEN
X
END IF

Ask if in the **current** square there is a price.







NEW INSTRUCTION SET

IF PRICE NEXT THEN
X
END IF

Ask if in the **next** square there is a price.







NEW INSTRUCTION SET

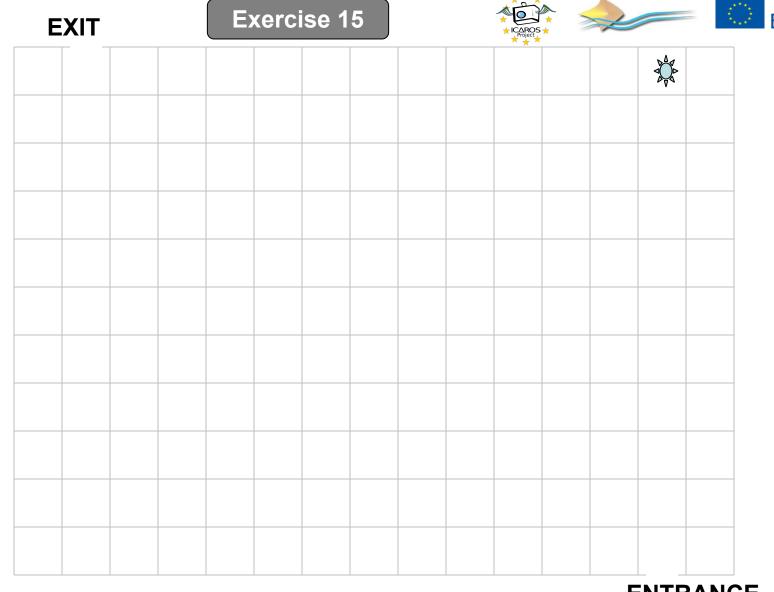
IF BLOCK THEN
X
END IF

Ask if in the **next** square there is something that will block the drone.



Objective: Show in the remote the number of squares passed/overflown.

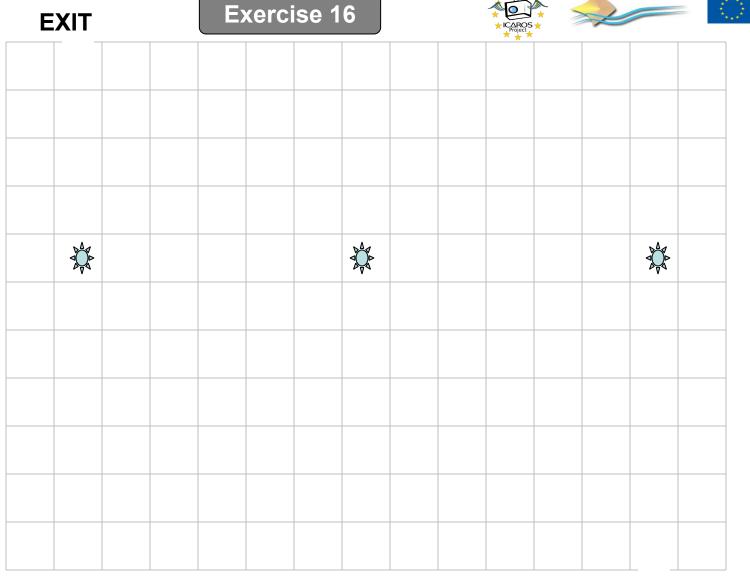




Objective: Show in the remote the number of squares passed/overflown.

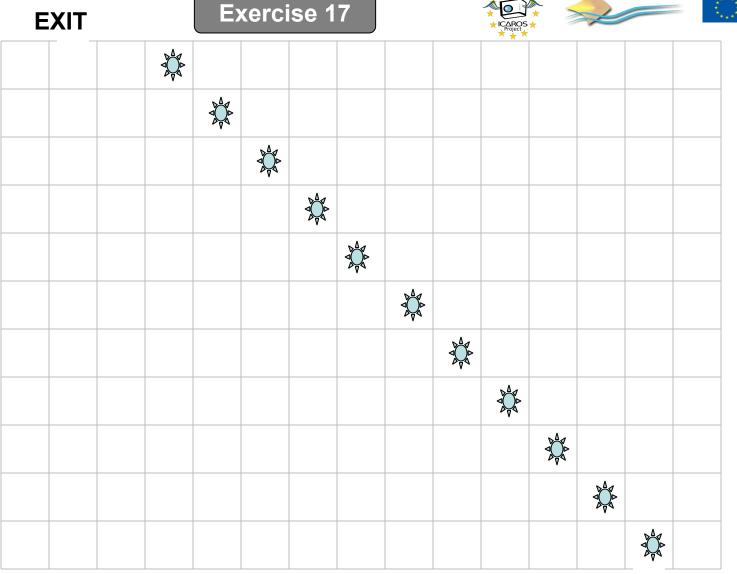






Objective: Show in the remote the number of squares passed/overflown.





Objective: Show in the remote the number of squares passed/overflown and the number of prices taken.

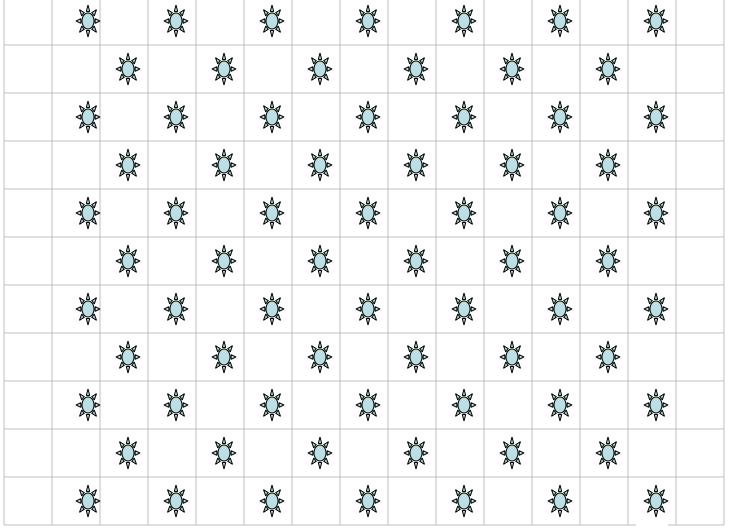


EXIT Exercise 18









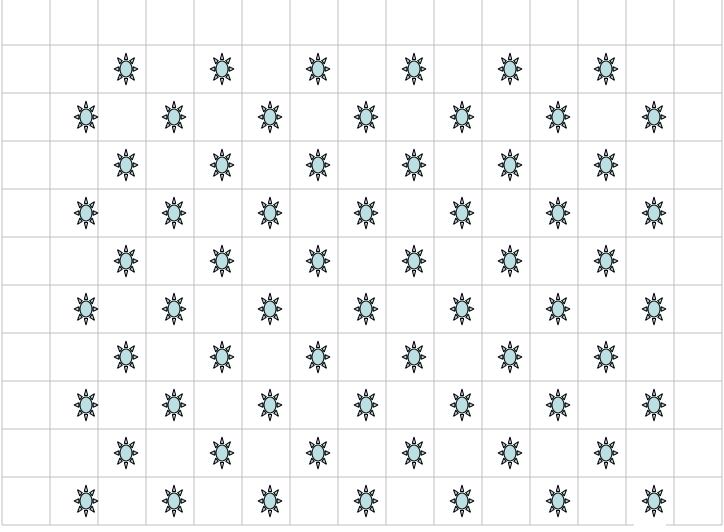


EXIT Exercise 19

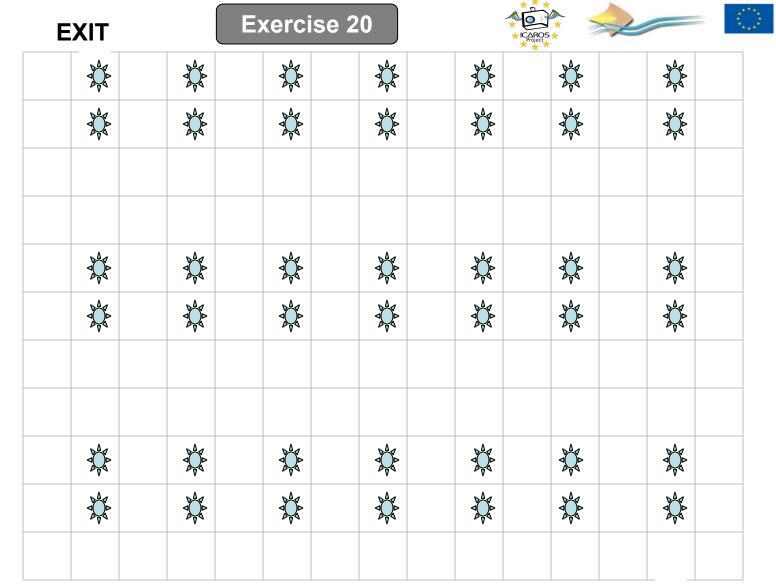




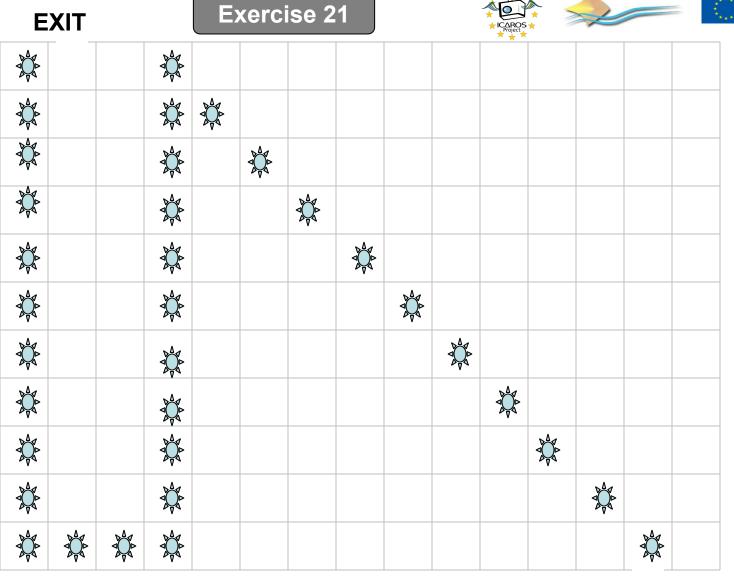








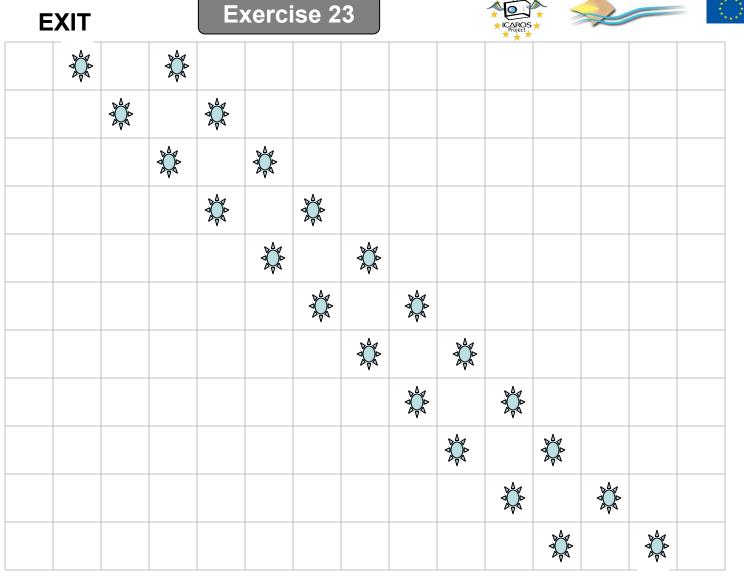












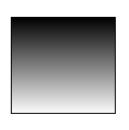






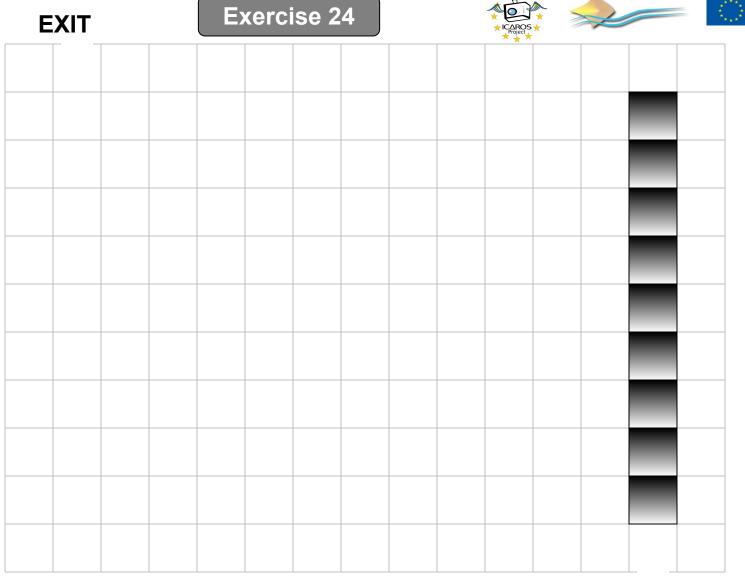


ICAROS has problemas!!!



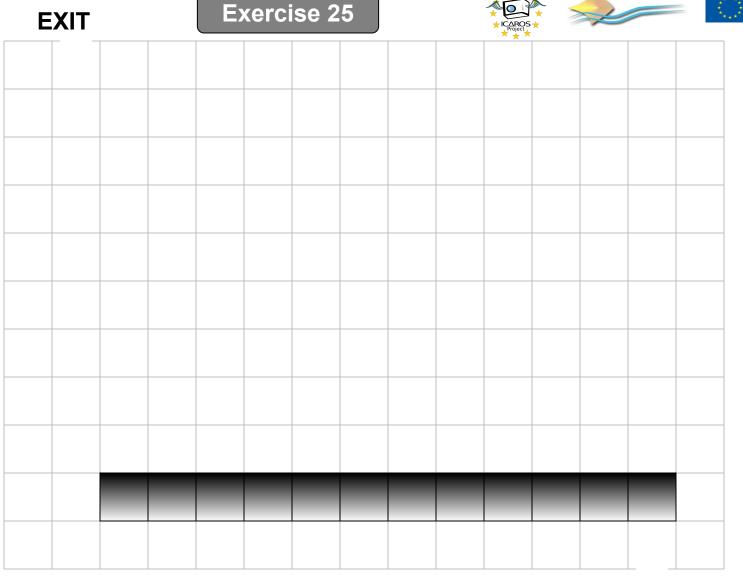
In this square could be a price or an obstacle. ICAROS has to ask in advance.

REMEMBER THIS COMMANDS
IF PRICE NEXT THEN..... END IF
IF BLOCK THEN END IF



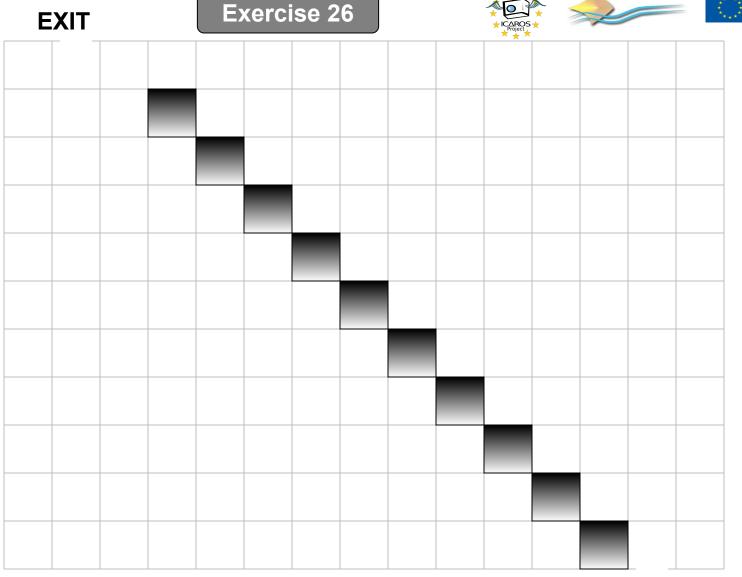
Objective: show in the remote how many squares and passed and prices has the drone taken.





Objective: show in the remote how many squares and passed and prices has the drone taken.





Objective: show in the remote how many squares and passed and prices has the drone taken.



Exercise 27







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