

Final examination.
Score: 5 points out of 10 total points for the exam.

There is only one correct answer for each multiple choice question. Score per correct answers: 50/7. Penalty for wrong answers: 0 points.

- Mark out your answers with an “X”.
- If more than one answer or no answer are selected, the question is considered to be not answered (no score is awarded, neither positive nor negative).
- Remember to fill in your name and student ID.

(1) Write your personal data clearly.

Last name:	
First name:	
Group:	

(2) Write down your student ID and cross out your answers with an “X”:

Model: A

ID:

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Figure 1 shows two 7x4 grids representing the initial state of the 15-puzzle. The left grid has columns labeled A, B, C, D and rows labeled 1 through 7. The right grid has columns labeled A, B, C, D and rows labeled 8 through 14. Both grids show a 3x3 block of tiles in the top-left corner, with the rest of the grid being empty. The tiles are represented by small black squares.

1.- How many months has a year?

- (a) 10.
- (b) 6.
- (c) 12.
- (d) It depends on whether it is a leap year or not.

2.- What is Python?

- (a) A kind of tree
- (b) Who knows!
- (c) A programming language
- (d) A computer manufacturer

3.- What does “hola” mean in Spanish?

- (a) “Wave”.
- (b) “Bye”.
- (c) “Hello”.
- (d) “Hola” is not a word in Spanish.





4.- Who created Python?

- (a) Richard Stallman.
- (b) Guido van Rossum.
- (c) Jamie Zawinski.
- (d) Dennis M. Ritchie.

5.- What is a webcam?

- (a) A video camera intended to spy on spiders
- (b) A kind of fish
- (c) Who knows!
- (d) A video camera whose output may be viewed in real time over a network, especially over the Internet.

6.- Which of the following pictures is different to the rest?

- (a) 
- (b) 
- (c) 
- (d) 

7.- Which is the capital of Spain?

- (a) None of the other answers is correct.
- (b) Barcelona.
- (c) Madrid.
- (d) Paris.

8.- What is Linux?

- (a) The tallest mountain on Earth.
- (b) An Internet company that sells phones.
- (c) A river in Spain.
- (d) A free-software operating system.

9.- Which of the following pieces of code follows the Java syntax?

(a) `public class MyClass {

}`

(b) `struct MyClass {

}`

(c) `class MyClass:
 pass`

(d) `PUSHA
MOV eax, 60`

10.- Which is the capital of France?

- (a) None of the other answers is correct.
- (b) Paris.
- (c) Madrid.
- (d) Lion.

11.- How is "Germany" said in German?

- (a) Germany.
- (b) Deutschland.
- (c) Die Schweiz.
- (d) Berlin.

12.- Are dolphins mammals?

- (a) No.
- (b) Yes.
- (c) Sometimes.
- (d) Who knows. . . .

13.- Is the thing in the right a logo?

- (a) Well, it tries to be a logo, to be honest.
- (b) Who knows!
- (c) No, it's a tree.
- (d) No, it's a perfect square.



14.- What is the thing at the right?

- (a) A tree
- (b) Who knows!
- (c) A computer program
- (d) A recipe

```
for letter in ['a', 'b', 'c']:  
    print letter
```