Game Development TRS - Final Examination - January 12th 2018

OUR FULL NAME:
 You have 2 hours to complete the assignment. Only valid text will be the one inside each box, everything else will be ignored by the teacher
3 points) Describe the Dijkstra algorithm, its steps in pseudocode/python/C and create an example e it can be useful to use over A* in a video game.

2. (2 points) Find out the mistakes in this XML and suggest improvements.

```
<entities>
  <static>
    <bushes>
      <instance coords="50,25"></instance>
      <instance coords="51,25"></instance>
      <instance coords="52,25"></instance>
    </bushes>
  <dynamic>
    <player coords="47,27" facing=east total_hp=4 hp=1</pre>
green gems=216 arrows=10 bombs=0/>
    <chickens hp="1">
      <instance coords="80,50" facing="west" flying="true"/>
      <instance coords="80,50" facing="west" flying="true"/>
      <instance coords="82,50" facing="east" flying="false"</pre>
color="yellow"/>
    </chickens>
</entities>
```

(2 points) Explain the concept of Profiling in the context of video game programming. Why we need to it, who should do it and what kind of areas of the code we apply it.
(3 points) Create an UML structure for an UI system that would support the elements (and only those ments) in this picture. Aim for simplicity and modularity. Write the code in C that would create those
ms before the scene starts.
Item 1 item #2 Item #3





