



**Área:**

Ingenierías (ING)

**Asignatura:**

Tendencia en Desarrollo de Software Lab(IDS347L)

**Docente:**

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**Reporte Sobre:**

Dead Ants: escenarios

**Sección:**

01

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Challenge:

An orderly trail of ants is marching across the park picnic area.

It looks something like this:

..ant..ant.ant...ant.ant..ant.ant....ant..ant.ant.ant...ant..

But suddenly there is a rumour that a dropped chicken sandwich has been spotted on the ground ahead. The ants surge forward! *Oh No, it's an ant stampede!!*

Some of the slower ants are trampled, and their poor little ant bodies are broken up into scattered bits.

The resulting carnage looks like this:

...ant...ant...na**t**.ant.**t**..ant...ant...ant..ant.anant..**t**

Can you find how many ants have died?

general scenarios:

1. We must understand that if we have  $n$  points[. , ... , ..] is an indication that there is a space between the ants.
2. When you find the word "ant" it means that an ant is in that space.
3. Since we already know that "ant" is an ant, we could take as a parameter that "an" is the body of the ant and it could be divided only into "a" or "n" and then it would be followed by a period or some letter.
4. So since we have already identified that "an" is the body, we could take as a parameter that "t" is the head of the ant and in any case that "t" is not accompanied by the body, that is, "an" then The ant is dead.

dead ant scenarios:

1. the head "t" is next to a point
2. "t" meets "a"
3. "t" is found next to another "t"

live ant scenarios:

1. The word "ant" is complete and there are periods in front or behind it.
2. The word "ant" is complete and together with other letters in front of or behind it, such as "aant", "anant", "tant", "anta", antan" or "antt"
3. In some cases you could find live ants without separation between them, so it would look like this: "antant"