

CS210 – Machine Problem 3

Zombie Identification System

20 Points

Assigned: February 2, 6 2017

Due: February 9, 13 2017

In the recent case study, *Shawn of the Dead*, it became obvious that one of the most important skills you need to have during a zombie apocalypse is the ability to consistently identify your adversary. We will develop a tool to help us in this endeavor. This tool is critically important because it is often difficult to distinguish between a zombie and a living human that is temporarily impaired (e.g. drunk).

This system will ask the user a series of yes or no questions regarding the state of the potential enemy. It will count the number of “Yes” answers provided. At the end of the questionnaire, it will print out the percentage of “Yes” answers, which corresponds to the probability that the target is a zombie. It will then identify to the user whether the target is likely a zombie ($p \geq 50\%$) or likely an ally ($p < 50\%$). To print the % character within a printf, you must double it (e.g. "50%").

After all this, it will then ask the user if they wish to identify another target. If the response is “Yes”, it will repeat the questionnaire.

You should use a separate function to get a Y/N response from the user and return a 1 if they typed 'y' and a 0 if they typed 'n'. You should make sure that they enter either a 'y' or an 'n' in either capital or lowercase letters. When using the `scanf` function to read characters, you should use the input specifier " %c" (with a leading space) to make sure that it doesn't read in the return character from the previous input.

Zombie Identification Questions

- Does the subject have a glazed over look?
- Is the subject moaning?
- Is the subject missing any limbs?
- Does the subject have pale or gray skin?
- Does the subject have any exposed organs?
- Is the subject on fire without showing pain?
- Does the subject show little response to objects in its path?
- Is the subject limping?
- Is the subject wearing a jacket with shoulder pads?
- Does subject crave brains and its not the first full week of October?

Sample Run

Zombie Identification System

Please answer the following questions regarding the subject:

Does the subject have a glazed over look? (y/n):y

Is the subject moaning? (y/n):P

Please enter 'y' or 'n':y

Is the subject missing any limbs? (y/n):N

Does the subject have pale or gray skin? (y/n):N

Does the subject have any exposed organs? (y/n):y

Is the subject on fire without showing pain? (y/n):Y

Does the subject show little response to objects in its path? (y/n):n

Is the subject limping? (y/n):n

Is the subject wearing a jacket with shoulder pads? (y/n):y

Does subject crave brains and its not the first full week of October? (y/n):n

Probability of zombiehood = 50%

RUN!

Do you wish to identify another target? (y/n):y

Zombie Identification System

Please answer the following questions regarding the subject:

Does the subject have a glazed over look? (y/n):y

Is the subject moaning? (y/n):y

Is the subject missing any limbs? (y/n):n

Does the subject have pale or gray skin? (y/n):y

Does the subject have any exposed organs? (y/n):n

Is the subject on fire without showing pain? (y/n):n

Does the subject show little response to objects in its path? (y/n):y

Is the subject limping? (y/n):n

Is the subject wearing a jacket with shoulder pads? (y/n):n

Does subject crave brains and its not the first full week of October? (y/n):n

Probability of zombiehood = 40%

Potential Ally! Sober them up!

Do you wish to identify another target? (y/n):n