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Report Docs

1. The first obstacle that I overcame in writing this program was getting the order of if-statements correct. I needed to think logically which characteristics should come before others, which ones, when known, could automatically qualify or disqualify a participant. The main obstacle I faced however was getting the program to output an error when the data entered for a certain variable was of the incorrect type. This was hard because I had originally written the program in such a way that only the innermost if-statement would ever give an error so no errors for anything except gender would be output. I fixed this by rewriting the code so after each time the user input data it immediately checked if the data was of the right type and if not it output an error. This is more efficient because it does not necessitate the entire program being run before giving feedback to the user.

Inputs that would thoroughly test the program:

Name (“zane”, “1234”, “ “, “”)

-Should give an eror when empty string is entered but not in other cases

-Reason to test these is to see if it can properly identify good name input

Gender (Male, Female, Trans Male, Trans Female, Queer, Different, 1234, “ “, “”)

-Should give an error when anything but the 6, predetermined genders are entered. Will give an error even if valid gender is entered but without capital first letter

-reason to test these is to see if it can properly identify gender input so it can give output that is gender based correctly.

Age( 16, “”, “ “, -20, 0)

-Should give an error when any non-positive, non-integer number not greater than 0 is entered or if left empty or if string is entered

- Reason to test this is to make sure the program is correctly reading inputs of age so it can advise correctly on if user can donate blood because it is age dependent

Weight (-1,0,100, “”, “ “)

-Should give an error when any non-positive, non-integer number not greater than 0 is entered or if left empty or if string is entered

- Reason to test this is to make sure the program is correctly reading inputs of weight so it can advise correctly on if user can donate blood because it is weight dependent

Height (-1,0,100,””,” “)

-Should give an error when any non-positive, non-integer number not greater than 0 is entered or if left empty or if string is entered

- Reason to test this is to make sure the program is correctly reading inputs of height so it can advise correctly on if user can donate blood because it is height dependent