**Problem 1 (10 points) -True/False** Submit a document called: Answers.doc

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**HW Submission requirements:**

**Homework 1**

if(!strcmp(answer, "state"))

scanf("%s", answer);

printf("Enter state, national or international:\n");

{

while(!check)

char answer[20];

{

else if (!strcmp(answer, "national"))

}

int check=0;

printf("Adding 5 points. New total: %d\n", travel\_points);

travel\_points=travel\_points+5;

{

Answer the following true/false questions. You must correctly state **WHY** your answer is true or false in

int travel\_points=1;

{

int main (int argc, char \*\*argv)

#include <string.h>

#include <stdio.h>

order to receive credit.

{

else

printf("Total travel points accumulated: %d. You get a free trip.\n",

travel\_points);

}

}

printf("Free dinner at Blue Sushi.\n");

printf("Not a valid command.\n");

}

}

}

1. From the code, we can say that the function *strcmp()* has 2 parameters.

2. If the user enters *Exit*, the program will terminate.

3. The only way to stop the *while* loop would be for the user to enter any integer other than 0.

4. Entering the sequence *state, national, international, state*, would result in a free trip for the user.

{

{

else

}

check=1;

printf("Getting 4x more points! New total: %d\n", travel\_points);

{

travel\_points\*=4;

}

else if((strcmp(answer, "exit")==0))

else if(!strcmp(answer, "international"))

}

printf("Getting state points plus double points! New total: %d\n", travel\_points);

travel\_points=(travel\_points+5)\*2;

printf("Sorry, not enough points for a free trip.\n");

}

else if(travel\_points< 250)

{

if(travel\_points<100)

{

}

{

.

10. This program uses two preprocessor directives and one header.

*21*.

9. If a user entered the sequence *state* followed *national*, the value of the *total\_points* variable would be

the program.

8. *strcmp(answer, "exit")==0* can be rewritten as *!strcmp(answer, "exit*") without modifying the function of

7. The function *strcmp()* returns an integer.

6. It would be perfectly acceptable to change *char answer[20]* to *char answer[10].*

it must be in *stdio.h*.

5. Assuming we don’t know where the function declaration of *printf* is, we can deduce from the code that

1. It is true that the strcmp has 2 parameters. It has answer and “state” or the other two.
2. False. The program doesn’t terminate when the user enters exit, rather it print put a statement based on the amount of points or say it isn’t a valid command.
3. True. Because the while loop says while it is not check and check is 0, then entering a number other than 0 ends it.
4. False. Entering state, national, international state would not result in enough points for a free trip.
5. True. The printf function is held in the standard input or output function listed in the header.
6. False. Changing the length of the string wouldn’t allow for a longer string to be entered
7. True. Strcmp returns an integer 1 for true and 0 for false
8. True, both formats have the same meaning
9. False, the total points is 21
10. True, the preprocessor are stdio and string while the one header is the main function.