## Obstacles Overcame

One of the obstacles I overcame was reading an empty occupation string. I overcame this obstacle by figuring out how to use “cin.ignore” in discussion and including that line right after reading the integer income.

Another obstacle I overcame was not knowing how to use the function “min”. Firstly I thought it was part of <math.h>, but the program was not able to compile. I then went to search on google and found out it is not a function available in C but only in <algorithm> in C++.

So I included that header, but then it still shows error: Originally I wrote **min(70000, pay-55000)**; it probably didn’t work because 70000 was in integer format while pay is a double variable. It was only when I changed it to **min(70000.0, pay-55000.0)**, that both numbers are changed to the same format of double, then it started working.

## Test Data List

| Reason | Name | Income | Occupation | Kids |
| --- | --- | --- | --- | --- |
| integer example | Clara Barton | 115000 | nurse | 5 |
| floater example | Rachel Green | 29544.69 | waitress | 0 |
| Income < 55000 | student | 15000 | student | 0 |
| 55000<Income<125000 | Wang Wei | 100000 | officer | 1 |
| Income > 125000 | Kanye West | 100000000 | rapper | 0 |
| Income > 125000 && have kids | Kanye West | 100000000 | rapper | 4 |
| teacher or nurse | Wang Wei | 100000 | teacher | 1 |
| tax should be 0 | casual | 20000 | casual | 5 |
| abnormal input | Trolling | -100 | joke | -5 |
| Income = 125000 && have kids | Quandale Ding | 125000 | player | 10 |