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Programming Foundations I

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**Problem Statement:**

The goals of this programming assignment were to get acquainted with using functions by writing the main function for a program that asks the user which plane ticket seats they would like to buy. The user input letters indicating which type of seat they would like to buy as well as a Y or N depending on whether the user would like to continue buying seats. The program then output the total cost of the tickets bought, as well as how many tickets there were. Error handling was used to make sure the user input the letter for an available seat (H, C, F, or P).

**Design:**

The program was basically written except for the main function, which was filled with comments outlining exactly what to write. There weren’t many design decisions to make.

**Implementation:**

The main function was filled in top-to-bottom, following all the comments given. None of the functions except main() were altered. The sample code used was hw4a.cpp on the PF1 website.

**Testing:**

To make sure every function was being used correctly, the program was tested after every new function was used. The program was tested multiple times using different seat types. Normal input included capital and lowercase C, H, P, and F.

**Conclusions:**

Overall, the program worked as expected. Since the only part of this program that needed working on was the main function, there wasn’t much I could change if I had to do this assignment again. The program took around twenty minutes to complete.

**Tests:**

