Problem Description: You are working for a company that is running a promotional contest. They want you to write a program to print a personalized form letter for each of the contestants. As a first effort, they want you to get the printing of the letter correct for just one name. Later on the program is to be extended to read the necessary information from a mailing list file. Therefore, the output information is to be contained in variables.

Input: There is no input for this program. All information is written into the program via defined constants

Output: A personalized form letter.

Discussion: The marketing department has already written the letter, you just have to code it into the program. In various places, a person’s name is to be inserted. To increase the personalization of the letter, four different versions of a person’s name are to be used. These versions are: just the first name, the full name with the title, first and last name without the middle initial, and title plus last name.

For this preliminary program, string constants are to be used to hold the various parts of the contestant’s name (first name, last name, middle initial and title). From this information, string concatenation is used to create the appropriate combinations of these parts. These concatenated results are stored in string variables that are then used in the output of the form letter.

Assumptions: This is a preliminary letter, so information for one person is stored in predefined constants in the program. Eventually the program is to be expanded to handle multiple contestant names.

Functional Decomposition:

Main – Form Letter Generation
Define constants
TITLE
FIRST_NAME
LAST_NAME
MIDDLE_INITIAL
Create various string variables to hold the following:
The first name with a blank
The Full Name – Title, first name, middle initial, last name
The First and last name
The Title and Last Name
Print the form letter using several cout statements with the various forms of the name inserted in the appropriate places.
Dr. Margaret H. Sklaznick is a GRAND PRIZE WINNER!!!!!!

Dear Dr. Sklaznick,

Yes it's true! Margaret Sklaznick has won our GRAND PRIZE -- your choice of a 42-INCH* COLOR TELEVISION or a FREE WEEKEND IN NEW YORK CITY.**

All that you have to do to collect your prize is attend one of our fun-filled all-day presentations on the benefits of owning a timeshare condominium trailer at the Happy Acres Mobile Campground in beautiful Panhard, Texas! Now Margaret I realize that the three-hour drive from the nearest airport to Panhard may seem daunting at first, but isn't it worth a little extra effort to receive such a FABULOUS PRIZE? So why wait? Give us a call right now to schedule your visit and collect your GRAND PRIZE!

Most Sincerely,

Argyle M. Sneeze

* Measured around the circumference of the packing crate. ** Includes air fare and hotel accommodations. Departure from Nome, Alaska; surcharge applies to other departure airports. Accommodations within driving distance of New York City at the Cheap-O-Tel in Plattsburgh, NY.