**Fitness Tracker Lab: Type Worksheet**

Given the declarations below and other information in the lab, fill in the variable/value types.

const int MAX\_PARTICIPANTS = 26;

int i, j;

Participant participants[MAX\_PARTICIPANTS];

(Assume i and j are in bounds of the arrays they index)

|  |  |
| --- | --- |
| **Name** | **Type** |
| participants |  |
| participants[i].firstName |  |
| participants[i].firstName[j] |  |
| participants[i].lastName |  |
| participants[i].lastName[j] |  |
| participants[i].numActivities |  |
| participants[i].activities |  |
| participants[i].activities[j] |  |
| participants[i].minutes |  |
| participants[i].minutes[j] |  |
| participants[i].totalMiles |  |

Fill in the blanks with code using the above participants array

1. Fill in the if statement with the correct Boolean expression that compare the participant’s name at index i with the participant’s name at index minIndex (the lab actually sorts by totalMiles)

if ( \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ )

minIndex = i;

1. Fill in the mathematical statement to determine the participant at index i’s step length. Assume stepLength has been declared a double.

stepLength =