Solution
A1: Running on the track

int T;
float L;
float S1, S2, D;
int X;
cout << "Enter X: number of times lapped: ";
cin >> X;
cout << "Enter Time: ";
cin >> T;
cout << "Enter Length of track in miles ";
cin >> L;
S1 = 60*60*L/T;
S2 = 60*60*L*(X+1)/T;
D = S2 - S1;
cout << "Speed difference is " << D;
cout << " S1 " << S1 << " S2 " << S2;
return 0;