

HW3 > HW3 > BAC.cpp > main()

```
//  
// BAC.cpp  
// HW3  
//  
// Created by Benny on 2/21/15.  
// Copyright (c) 2015 Benny. All rights reserved.  
//  
  
#include <iostream>  
#include <iomanip>  
using namespace std;  
  
const double safe = 0.00;  
const double someImpairment = 0.04;  
const double significantAffected = 0.08;  
const double someCriminalPenalties = 0.10;  
const double deathPossible = 0.30;  
const string SAFE = "Safe To Drive";  
const string SOMEIMPAIR = "Some Impairment";  
const string SIGNIFICANT = "Driving Skills Significantly Affected";  
const string MOST_STATES = "Criminal Penalties in Most US States";  
const string ALL_STATES = "Legally Intoxicated - Criminal Penalties in All US States";  
const string YOURE_DEAD = "Death is Possible!";  
  
void computeBloodAlcoholConcentration(int numDrinks, int weight, int duration, double &maleBAC, double &femaleBAC){  
    double maleBAC_Constant = 3.8;  
    double femaleBAC_Constant = 4.5;  
    double num = numDrinks;
```

No Selection

```
Enter the weight(in pounds):120  
Enter the sex(M/F):F  
Enter the time since last drink(in minutes):0  
Enter the number of drinks(0~20):11  
120 pounds, female  
# drinks  BAC    Status  
0      0      Safe To Drive  
1 0.037  Some Impairment  
2 0.075  Driving Skills Significantly Affected  
3 0.11   Legally Intoxicated - Criminal Penalties in All  
US States  
4 0.15   Legally Intoxicated - Criminal Penalties in All  
US States  
5 0.19   Legally Intoxicated - Criminal Penalties in All  
US States  
6 0.23   Legally Intoxicated - Criminal Penalties in All  
US States  
7 0.26   Legally Intoxicated - Criminal Penalties in All  
US States  
8 0.3     Legally Intoxicated - Criminal Penalties in All  
US States  
9 0.34   Death is Possible!  
10 0.38  Death is Possible!  
11 0.41  Death is Possible!  
Program ended with exit code: 0
```

Auto ↕ | 🔍 ⓘ

All Output ↕



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const string SIGNIFICANT = "Driving Skills Significantly Affected";  
const string MOST_STATES = "Criminal Penalties in Most US States";  
const string ALL_STATES = "Legally Intoxicated - Criminal Penalties in All US States";  
const string YOURE_DEAD = "Death is Possible!";
```

No Selection

```
Enter the weight(in pounds):150  
Enter the sex(M/F):M  
Enter the time since last drink(in minutes):40  
Enter the number of drinks(0~20):12  
150 pounds, male  
# drinks  BAC    Status  
0          0      Safe To Drive  
1 0.015     Some Impairment  
2 0.041     Driving Skills Significantly Affected  
3 0.066     Driving Skills Significantly Affected  
4 0.091     Criminal Penalties in Most US States  
5 0.12      Legally Intoxicated - Criminal Penalties in All  
US States  
6 0.14      Legally Intoxicated - Criminal Penalties in All  
US States  
7 0.17      Legally Intoxicated - Criminal Penalties in All  
US States  
8 0.19      Legally Intoxicated - Criminal Penalties in All  
US States  
9 0.22      Legally Intoxicated - Criminal Penalties in All  
US States  
10 0.24     Legally Intoxicated - Criminal Penalties in All  
US States  
11 0.27     Legally Intoxicated - Criminal Penalties in All  
US States  
12 0.29     Legally Intoxicated - Criminal Penalties in All  
US States  
Program ended with exit code: 0
```

Auto ↕

All Output ↕

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Finished running HW3 : HW3

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const string ALL_STATES = "Legally Intoxicated - Criminal Penalties in All US States";  
const string YOURE_DEAD = "Death is Possible!";
```

No Selection

```
Enter the weight(in pounds):160  
Enter the sex(M/F):m  
Enter the time since last drink(in minutes):20  
Enter the number of drinks(0~20):13  
Invalid sex value, Enter again(M/F):M  
160 pounds, male  
# drinks  BAC    Status  
0         0      Safe To Drive  
1 0.023    Some Impairment  
2 0.051    Driving Skills Significantly Affected  
3 0.079    Driving Skills Significantly Affected  
4 0.11     Legally Intoxicated - Criminal Penalties in All  
US States  
5 0.14     Legally Intoxicated - Criminal Penalties in All  
US States  
6 0.16     Legally Intoxicated - Criminal Penalties in All  
US States  
7 0.19     Legally Intoxicated - Criminal Penalties in All  
US States  
8 0.22     Legally Intoxicated - Criminal Penalties in All  
US States  
9 0.25     Legally Intoxicated - Criminal Penalties in All  
US States  
10 0.28    Legally Intoxicated - Criminal Penalties in All  
US States  
11 0.3      Death is Possible!  
12 0.33    Death is Possible!  
13 0.36    Death is Possible!  
Program ended with exit code: 0
```

Auto



All Output



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const double deathPossible = 0.30;  
const string SAFE = "Safe To Drive";  
const string SOMEIMPAIR = "Some Impairment";  
const string SIGNIFICANT = "Driving Skills Significantly Affected";  
const string MOST_STATES = "Criminal Penalties in Most US States";  
const string ALL_STATES = "Legally Intoxicated - Criminal Penalties in All US States";
```

No Selection

```
Enter the weight(in pounds):170  
Enter the sex(M/F):f  
Enter the time since last drink(in minutes):80  
Enter the number of drinks(0~20):14  
Invalid sex value, Enter again(M/F):F  
170 pounds, female  
# drinks  BAC    Status  
0         0      Safe To Drive  
10.0065   Some Impairment  
2 0.033   Some Impairment  
3 0.059   Driving Skills Significantly Affected  
4 0.086   Criminal Penalties in Most US States  
5 0.11    Legally Intoxicated - Criminal Penalties in All  
US States  
6 0.14    Legally Intoxicated - Criminal Penalties in All  
US States  
7 0.17    Legally Intoxicated - Criminal Penalties in All  
US States  
8 0.19    Legally Intoxicated - Criminal Penalties in All  
US States  
9 0.22    Legally Intoxicated - Criminal Penalties in All  
US States  
10 0.24   Legally Intoxicated - Criminal Penalties in All  
US States  
11 0.27   Legally Intoxicated - Criminal Penalties in All  
US States  
12 0.3    Legally Intoxicated - Criminal Penalties in All  
US States  
13 0.32   Death is Possible!  
14 0.35   Death is Possible!  
Program ended with exit code: 0
```

Auto ↕



All Output ↕



