# **Exam answer June 2013**

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# **Section A:**

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# **Section B:**

# **Question 1.a:**

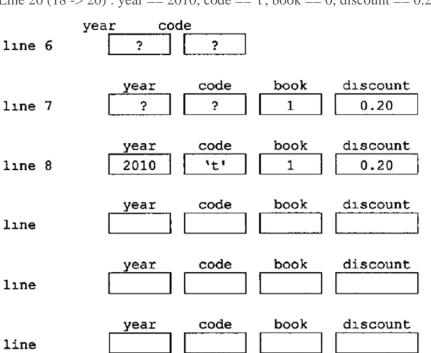
The purpose : Continue to increase the value of (s) by the value of the variable (n) per loop until n is greater than 5.

# **Question 1.b:**

The purpose: Continue to increase the value of (c) by 1 per loop (five loops in total) when a specific element in the (numbers) array which the index variable (i) points to is not equal to zero.

# **Question 2.a.i:**

Line 8: year == 2010, code == 't', book == 1, discount == 0.20 Line 9: year == 2010, code == 't', book == 1, discount == 0.20 Line 10 (10 -> 17): year == 2010, code == 't', book == 1, discount == 0.20 Line 18: year == 2010, code == 't', book == 1, discount == 0.20 Line 20 (18 -> 20): year == 2010, code == 't', book == 0, discount == 0.20

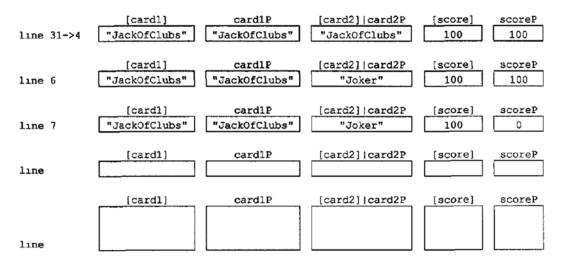


#### Question 2.a.ii:

2010 b 1 0.35

#### Question 2.b.i:

```
Line 7 : card1 == "JackOfClubs", card1P == "JackOfClubs", card2 == "Joker", card2P == "Joker", score == 100, scoreP == 0
Line 8 : card1 == "JackOfClubs", card1P == "JackOfClubs", card2 == "Joker", card2P == "Joker", score == 100, scoreP == 0
Line 9 (9 -> 13) : card1 == "JackOfClubs", card1P == "JackOfClubs", card2 == "Joker", card2P == "Joker", score == 100, scoreP == 0
```



# **Question 2.b.ii:**

```
card2P = "AceOfHearts";
scoreP = 100;
```

# Question 2.b.iii:

JackOfClubs 5OfClubs 100

#### **Question 3:**

```
switch(nrWheels)
{
   case 2 : count2 = 1; break;
   case 4 : count4 = 1; break;
   default : if(nrWheels > 4) countMore = 1; break;
};
```

# **Question 4:**

```
name = 'B';
while(name == 'B' || name == 'E')
  cout << "Which one's product was sold? (B or E) : ";</pre>
  cin >> name;
  if(name == 'B' || name == 'E')
     cout << "Enter sale : ";</pre>
     cin >> sale;
     if(name == 'B') bSales += sale;
     else eSales += sale;
  }
Question 5:
if(time < 1) interest = 0.025;
else if(time < 2) interest = 0.030;
else if(time < 3) interest = 0.035;
else if(time < 4) interest = 0.040;
else if(time < 5) interest = 0.045;
else interest = 0.0475;
Question 6:
float calcAverage(float sales[NUM_DAYS])
  float total = 0;
  for(int i = 0; i < NUM_DAYS; i++)</pre>
  total += sales[i];
  return total / (float) NUM_DAYS;
}
Question 7.a:
int training[4][3];
Question 7.b:
int training[4][3];
int max;
for(int i = 0; i < 4; i++)
  max = training[i][0];
  for(int j = 1; j < 3; j++)
  if(training[i][j] > max)
  max = training[i][j];
  cout << "The longest distance covered in week " << i + 1 << " was " << max << endl;
```

#### Question 8.a:

```
void check(int v1, double v2);
double mult(double v1, double v2);
void time(int &hrs, int &minutes, int &seconds);
int countlets(string str, char letter);
Question 8.b:
The differences:
+ The doubleNum1 takes a reference variable as an argument. Has no return value.
+ The doubleNum2 takes a normal variable as an argument. Has int return value.
How to call them:
int a = 15;
doubleNum1(a);
a = doubleNum2(15);
a = doubleNum2(a);
Question 8.c:
int cube(int a)
  return a * a * a;
answer = cube(n);
Question 9.a:
AR 9.99
AR 1.11
Question 9.b:
void read_Shoe_Record(ShoeType &new_Shoe)
  cout << "Enter style : ";</pre>
  cin >> new_Shoe.style;
  cout << "Enter price: ";
  cin >> new_Shoe.price;
Question 10:
string changeCase(string senP)
  for(int i = 0; i < senP.size(); i++)
    if(islower(senP[i])) senP[i] = toupper(senP[i]);
    else senP[i] = tolower(senP[i]);
  return senP;
```