Programming Session Assignment 01

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1. Required files

You need to summit a .zip file named PSA01_b07901xxx.zip (your student ID) that contains the following files:

PSA01_p1.cpp
PSA01_p2.cpp
PSA01_p3.cpp

Please upload the .zip file to the CEIBA website by the deadline. Do not submit any executable files (.exe). Files with names in wrong format will not be graded.
Due date: 9/27 03:00

2. Problem Description

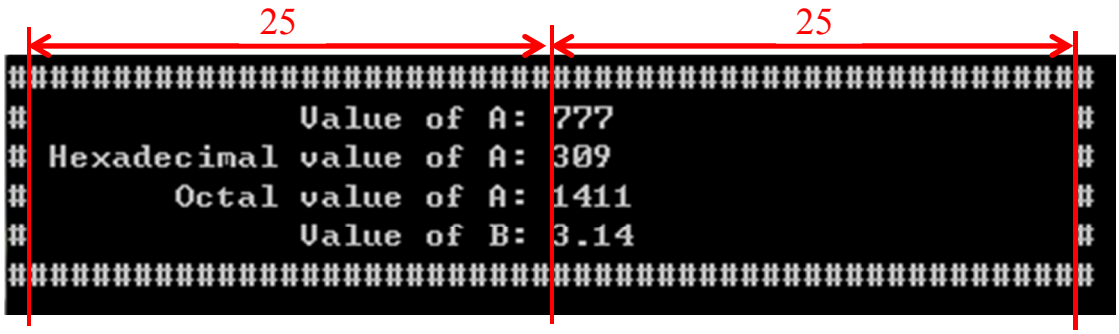
(1) [Debug] [Required File: PSA01_p1.cpp]

In this problem, we want to output today's date. We use some variables to store the date. However, there are some obvious bugs in our sample code. Please fix the bugs so that you can show the same result as the sample output.

```
Date: 9\26\2018
```

(2) [Output manipulator] [Required File: PSA01_p2.cpp]

Please use output manipulators to display the same result as the sample output.



[Hint] You can use setw(n) defined in header <iomanip> to set the width of the output stream to exactly n, and use setprecision(n) to control the output precision.

```cpp
int main()
{
    int a = 777;
    cout << a << "#" << endl;
    cout << setw(6) << right << a << "#" << endl;
    cout << setw(6) << left << a << "#" <<  endl;
    return 0;
}
```

```
777#
   777#
777   #
```

(3) [ASCII Decoder] [Required File: PSA01_p3.cpp]

Please fill in all TODOs in **PSA01_p3.cpp** to show the output as required. You can see **PSA01_p3_example.cpp** as an example to find out the unknown values. Try to modify or extend the example code to get all unknown values in **PSA01_p3.cpp**. (You don't need to submit your PSA01_p3_example.cpp.)

```
int i = ; //TODO (find out the value of i)
c1 = '' + i; // TODO (fill in a character)
c2 = 78 + i;
c3 = '' + i; // TODO (fill in a character)
```

```
deCodedMessage
```

(Required output)

[Hint] Maybe you would need the ASCII table, you can find in **Variable** page 8.
[Hint] You should find out the value of variable i first, then you can get other answers one by one.