

# Computer Programming (II)

## Homework 1

### Problem Statement

Please add three classes—Dessert, Pancake and Suncake—to the program below so as to meet the following requirements:

- Each time the user types 1, the program outputs  
The initial weight is 80  
The weight has become 60
- Each time the user types 2, the program outputs  
The initial weight is 80  
Adding syrup...  
The weight has become 60
- Each time the user types 3, the program outputs  
The initial weight is 80  
Adding water...  
The weight has become 60
- Upon reaching EOF, the program terminates.

```
#include <iostream>
using namespace std;
```

```
int main()
{
    Dessert *d;
    int choice;

    while ( cin >> choice )
    {
        switch ( choice )
        {
            case 1:
                d = new Dessert();
                break;
            case 2:
                d = new Pancake();
```

```

        break;
    case 3:
        d = new Suncake();
        break;
    default:
        exit( 1 );
    }

    cout << "The initial weight is " << d->getWeight() << '\n';
    d->eat();
    cout << "The weight has become " << d->getWeight() << "\n\n";
    delete d;
}
}

```

Please leave the main function intact. Furthermore, Pancake::eat() and Suncake()::eat() should call Dessert::eat().

### My Screenshot

```

b89053@linux1:/home/student/89/b89053/IN107> ./a.out
2
The initial weight is 80
Adding syrup...
The weight has become 60

3
The initial weight is 80
Adding water...
The weight has become 60

1
The initial weight is 80
The weight has become 60

2
The initial weight is 80
Adding syrup...
The weight has become 60

b89053@linux1:/home/student/89/b89053/IN107>

```