

```
// Author: Kenry Yu
```

```
// Demo:
```

```
#include "Can.h"
```

```
#include <iostream>
```

```
using namespace std;
```

```
int main() {
```

```
    Can c1("Coke", 12);
```

```
    Can c2("beans", 20);
```

```
    Can c3 = c2;
```

```
    {
```

```
        Can c4("juice", 32);
```

```
        Can c5("juice", 12);
```

```
        c4 = c5;
```

```
        cout << "\n-----Can #4->";
```

```
        c4.display();
```

```
        cout << "\n-----Can #5->";
```

```
        c5.display();
```

```
    }
```

```
    c3 = max(c1, c2);
```

```
    cout << "\n-----Max size->";
```

```
    c3.display();
```

```
// the following code does not compile - why?
```

```
// Because c4 and c5 were initialized in a block (scope?)
```

```
// but now we are outside the block
```

```
// cout << "-----Can #4->"; c4.display(); cout << "-----Can #5->";
```

```
// c5.display();
```

}

```
#include <iostream>
```

```
#include <string>
```

```
class Can {
```

```
private:
```

```
    std::string content;
```

```
    float ounces;
```

```
public:
```

```
    Can() : content("Empty"), ounces(0){};
```

```
    Can(const Can &);
```

```
    Can(std::string con, float num) : content(con), ounces(num){};
```

```
    ~Can();
```

```
    void operator=(Can);
```

```
    void display();
```

```
    friend Can max(Can, Can);
```

```
};
```

```
#include "Can.h"
```

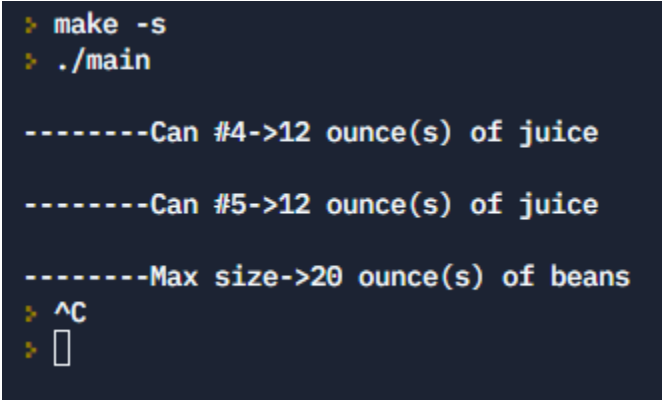
```
Can::Can(const Can &right) {  
    this->content = right.content;  
    this->ounces = right.ounces;  
}
```

```
Can::~~Can(){}
```

```
void Can::operator=(Can right) {  
    this->content = right.content;  
    this->ounces = right.ounces;  
}
```

```
void Can::display() {  
    std::cout << this->ounces << " ounce(s) of " << this->content << std::endl;  
}
```

```
Can max(Can left, Can right) {  
    return (left.ounces >= right.ounces) ? left : right;  
}
```



```
> make -s  
> ./main  
  
-----Can #4->12 ounce(s) of juice  
  
-----Can #5->12 ounce(s) of juice  
  
-----Max size->20 ounce(s) of beans  
> ^C  
> □
```

The screenshot shows a terminal window with a dark background. It displays the output of a C++ program. The first two lines show the compilation and execution of the program. The output consists of three lines of text, each preceded by a series of dashes. The first two lines are "-----Can #4->12 ounce(s) of juice" and "-----Can #5->12 ounce(s) of juice". The third line is "-----Max size->20 ounce(s) of beans". After the output, the user presses Ctrl-C (^C) and then a square symbol (□).