```
#include "dateType.h"
#include <iostream>
#include <string>
using namespace std;
dateType::dateType(string d)
   date = d;
dateType::dateType()
   date = "Sun";
dateType::~dateType()
string dateType::getDate() const{
   return date;
string dateType::getNextDay()const{
   if(date == "mon" || date == "Mon") return "Tues";
   else if(date == "Tues" || date == "tues") return "Wed";
   else if(date == "Wed" || date == "wed") return "Thur";
   else if(date == "Thur" || date == "thur") return "Fri";
   else if(date == "fri" || date == "Fri") return "Sat";
   else if(date == "sat" || date == "Sat") return "Sun";
   else if(date == "Sun" || date == "sun") return "Mon";
   else{
      cout << "wrong weekday" << endl;</pre>
      return NULL;
void dateType::addDay(int num){
   int dayNum = 0;
   dayNum = date2num();
   dayNum += num;
   switch (dayNum % 7)
   case 1:
      date = "Mon";
      break;
```

```
case 2:
      date = "Tues";
      break;
   case 3:
      date = "Wed";
      break;
   case 4:
      date = "Thur";
      break;
   case 5:
      date = "Fri";
      break;
   case 6:
      date = "Sat";
      break;
   case 7:
      date = "Sun";
      break;
   default:
      break;
void dateType::setDay(string d){
   date = d;
int dateType::date2num(){
   if(date == "mon" || date == "Mon") return 1;
      else if(date == "Tues" || date == "tues") return 2;
      else if(date == "Wed" || date == "wed") return 3;
      else if(date == "Thur" || date == "thur") return 4;
      else if(date == "fri" || date == "Fri") return 5;
      else if(date == "sat" || date == "Sat") return 6;
      else if(date == "Sun" || date == "sun") return 7;
      else{
      cout << "wrong weekday" << endl;</pre>
      return −1;
```

DateType.h:

```
#define DATETYPE_H
#pragma once
#include <string>
using namespace std;
class dateType
public:
   dateType(string d);
   dateType();
   virtual ~dateType();
   string getDate() const;
   string getNextDay() const;
   void addDay(int num);
   void setDay(string d);
private:
   string date;
   int date2num();
};
#endif
```

## Result:

```
#include <iostream
#include <vector>
     #include <string>
     #include <fstream>
     #include <iomanip>
     #include "dateType.h"
     #include "dateType.cpp"
     int main()
      · · · dateType · *x · = · new · dateType();
      cout << (*x).getDate() << endl;</pre>
       cout << (*x).getDate() << endl;</pre>
       cout << (*x).getNextDay() << endl;</pre>
       ···(*x).setDay("Sun");
     cout << (*x).getDate() << endl;</pre>
        return 0:
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
```