## Convert the following C++ code into a Visual Basic .Net console program. #include <iostream> using namespace std; class DateTime{ public: DateTime(int = 1, int = 1, int = 1900, int = 0, int = 0, int=0); void setDate(int, int, int); void setMonth(int); void setDay(int); void setYear(int); int getMonth(void); int getDay(void); int getYear(void); void nextDay(void); void setTime(int,int,int); void setHour(int); void setMinute(int); void setSecond(int); int getHour(void); int getMinute(void); int getSecond(void); void printMilitary(void); void printStandard(void); int monthDays(void); void tick(void); bool leapYear(void); private: int month, day, year, hour, minute, second; **}**; DateTime::DateTime(int m, int d, int y, int hr, int min, int sec) setDate(m,d,y); setTime(hr,min,sec); void DateTime::setDate(int mo, int dy, int yr) setMonth(mo); setDay(dy); setYear(yr); int DateTime::getDay(void) {return day;} int DateTime::getMonth(void) {return month;} int DateTime::getYear(void) {return year;} void DateTime::setDay(int d) if (month == 2 && leapYear()){ if (d <= 29 && d >= 1){ day = d;

else{

 $day = 1; \}$ 

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else{
          if (d <= monthDays() && d >= 1){
               day = d;
          else{
               day = 1;
void DateTime::setMonth(int m)
     if (m \le 12 \&\& m >= 1)
          month = m; }
     else {
          month = 1;
void DateTime::setYear(int y){
     if (y \le 2050 \&\& y > 1900)
          year = y;
     else{
          year = 1900;}
void DateTime::nextDay(void){
     setDay(++day);
     if (day==1){
          setMonth(++month);
          if (month == 1)
               setYear(++year);
void DateTime::setTime(int hr, int min, int sec){
     setHour(hr);
     setMinute(min);
     setSecond(sec);
void DateTime::setHour(int h){
     if (h >= 0 \&\& h < 24)
          hour=h;
     else
          hour=0;
void DateTime::setMinute(int m){
     if (m >= 0 \&\& m < 60)
          minute=m;
     else
          minute=0;
void DateTime::setSecond(int s){
     if (s >= 0 \&\& s < 60)
          second=s;
     else
          second=0;
int DateTime::getHour(void){ return hour;}
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int DateTime::getMinute(void){ return minute;}
int DateTime::getSecond(void){ return second;}
void DateTime::printStandard(void){
     if (hour % 12 == 0)
          cout << 12 << ':';
     else
          cout << hour%12 <<':';
     if (minute < 10)
          cout << "0" << minute << ':';
     else
          cout << "" << minute << ':';
     if (second < 10)
          cout << "0" << second << ':';
     else
          cout << "" << second << ':';
     if (hour < 12)
          cout << " AM ";
     else
          cout << " PM ";
     cout << month << '/' << day << '/' << year << endl;</pre>
void DateTime::printMilitary(void){
     if (hour < 10 )
          cout << "0" <<hour << ':';
     else
          cout << "" << hour <<':';
     if (minute < 10)
          cout << "0" << minute << ':';
     else
          cout << "" << minute << ':';
     if (second < 10)
          cout << "0" << second << " ";
     else
          cout << "" << second << "
     cout << month << '/' << day << '/' << year << endl;</pre>
void DateTime::tick(void){
     setSecond(++second);
     if (second==0){
          setMinute(++minute);
          if (minute==0){
               setHour(++hour);
               if (hour==0)
                    nextDay();
          }
bool DateTime::leapYear(void){
     if (year % 400 == 0 || (year % 4 == 0 && year % 100 != 0))
          return true;
     else
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return false;
int DateTime::monthDays(void){
    31};
    if(month == 2 && leapYear())
         return 29;
    else
          return days[(month-1)];
}
int main(){
    const int MAXTICKS = 3000;
    DateTime d(3, 2, 1998, 23, 50, 0);
    for (int ticks = 1; ticks <= MAXTICKS; ++ticks){</pre>
         cout << "Military time: ";</pre>
         d.printMilitary();
         cout << "Standard time: ";</pre>
         d.printStandard();
         d.tick();
    }
    cout << endl;</pre>
    return 0;
      }
```

Note: The homework should be e-mailed to <u>cs375@cs.ua.edu</u> no later than the due date and should include the code and sample output (ALT + Print Screen) in a word file.