date.cm

```
/*
    ================================================================

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        )

    ================================================================

    */
// Copyright (c) 1994
// Hewlett-Packard Company
// Copyright (c) 1996
// Silicon Graphics Computer Systems, Inc.
// Copyright (c) 2009 Alexander Stepanov and Paul McJones

namespace System
{
    public class Date
    {
        public Date(): year(1u), month(1u), day(1u)
        {
        }
        public Date(ushort year_, byte month_, byte day_): year(year_),
            month(month_), day(day_)
        {
        }
        public nothrow inline ushort Year() const
        {
            return year;
        }
        public nothrow inline byte Month() const
        {
            return month;
        }
        public nothrow inline byte Day() const
        {
            return day;
        }
        private ushort year;
        private byte month;
        private byte day;
    }

    public nothrow bool operator==(Date left, Date right)
    {
        return left.Year() == right.Year() && left.Month() == right.Month
            () && left.Day() == right.Day();
```

```
    }

    public nothrow bool operator<(Date left, Date right)
    {
        if (left.Year() < right.Year()) return true;
        else if (left.Year() > right.Year()) return false;
        else if (left.Month() < right.Month()) return true;
        else if (left.Month() > right.Month()) return false;
        else return left.Day() < right.Day();
    }

    public Date CurrentDate()
    {
        string dateString(' ', 10);
        int result = get_current_date(dateString.Chars());
        if (result == 0)
        {
            throw Exception("get_current_date failed");
        }
        return ParseDate(dateString);
    }
}
```