Given the following user control – it's a monthly control which shows the number of appointments of a worker\person\whoever – each cell has the date at the top and number of appointments in bold.

**January 2001**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1/2  **4** | 2/2  **0** | 3/2  **1** | 4/2  **3** | 5/2  **0** | 6/2  **0** | And so on.. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 27/2  **0** | 28/2  **8** |

In a certain day you can have several appointments\No appointments (0)

**Given the following code – you need to write the code that fills the user control –marked in bold in most efficient way o(1)**

private void FillControl(int selectedMonth, int selectedyear, int numberOfDaysInMonth)  
        {  
            //returns all the dates of the appointment from the given month  
            List<DateTime> dates = SomeDataProvider.GetAllDates(selectedMonth);

//for example for the above data would return **sorted** list such as – '1/2/2001', '1/2/2001', '1/2/2001', '1/2/2001', '3/2/2001', '4/2/2001', '4/2/2001', '4/2/2001' … and so on  
  
            List<AppointmentsDateInfo> listToPopulate = new List<AppointmentsDateInfo>();  
  
**//we want the code that adapts\converts from dates to listToPopulate**  
**//------------ complete the code that should be written here...  
  
            //-------------------------**            ctlAppointmentsDate.Populate(listToPopulate);  
        }  
    }  
  
    public class AppointmentsDateInfo  
    {  
        public DateTime Date { get; set; }  
  
        public int CountAppointments { get; set; }  
    }  
  
    public class AppointmentsDateControl  
    {  
        public void Populate(List<AppointmentsDateInfo> list)  
        {  
            // this is done by the control  
        }  
    }