

```
/* Recursive function that calculates the day of the month
within a specific month that has the 1st on a Tuesday.
Parameter X is day of month we are trying to find day number
for. X takes on values from 1...28/29/30/31. Function returns
a day number 0...6, 0=Sun, 1=Mon, 2= Tues, etc. */
```

```
int DayOfMonth(int X) {
    int day;

    if (X == 1) return 2;
    day = 1 + DayOfMonth(X - 1);
    day %= 7;
    return day;
}

int main() {
    int day = 25;
    printf("Day of month for %d= %d\n", day, DayOfMonth(day));
}
```

