

12.1.cpp

```
1  #include <iostream>
2  #include <iomanip>
3  #include <ctime>
4
5  using namespace std;
6  int main() {
7      time_t t = time{0};
8      tm* now = localtime(&t);
9      cout << now->tm_year + 1900;
10     cout << " calendar\n" << endl;
11     tm time_in = { 0, 0, 0, 1, 0, now->tm_year};
12     mktime(&time_in);
13     int st = time_in.tm_wday;
14
15     string months[12] = {"january", "february", "march", "april", "may", "june", "july", "august", "september", "october", "november", "december"};
16     int yearly[12][2] = {{1, 31}, {2, 28}, {3, 31}, {4, 30}, {5, 31}, {6, 30}, {7, 31}, {8, 31}, {9, 30}, {10, 31}, {11, 30}, {12, 31}};
17
18     int days = st;
19     for(int i = 0; i < 12; i++) {
20         cout << months[i] << endl;
21         for (int j = 0; j < days % 7; j++) {
22             cout << "\t";
23         }
24         for (int k = 1; k <= yearly[i][1]; k++) {
25             cout << k;
26             if ((days + k) % 7 == 0) {
27                 cout << endl;
28             }
29             else{
30                 cout << "\t";
31             }
32         }
33         days += yearly[i][1];
34         cout << endl << endl;
35     }
36 }
37
```

1. bash

2019 calendar

january

		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

february

					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

march

					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

april

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

may

			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

june

						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

july

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

august

				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

september

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

october

		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

november

					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

december

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

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