## Source code:

```
import java.time.Year;
import java.io.File;
import java.io.FileWriter;
import java.io.IOException;
   Run|Debug
public static void main(String[] args)
      printCalendar(yearly);
      printCalendar(yearlyM);
      for (Object[] i : yearlyM)
          start = printMonth(i, start);
          System.out.println();
      int year = Year.now().getValue();
      boolean isLeap = Year.now().isLeap();
      if (isteap) System.out.println(x:"It is a leap year"); else System.out.println(x:"It is not a leap year");
      System.out.println(year);
      String firstDay = Year.now().atDay(dayOfYear:1).getDayOfWeek().name();
      System.out.println(firstDay);
```

```
start = 2;
        break;
        start = 3;
        break;
        start = 4;
        break;
       start = 5;
        break;
       start = 6;
        break;
        start = 7;
        break;
        start = 1;
        break;
for (Object[] i : yearlyM)
    start = printMonth(i, start);
    System.out.println();
start = Year.now().atDay(dayOfYear:1).getDayOfWeek().getValue() + 1;
    File calendarFile = new File(pathname:"calendar.csv");
    FileWriter calendarWriter = new FileWriter(fileName:"calendar.csv");
    calendarWriter.write(str:"\"Month\"\n");
```

```
for (Object[] i : yearlyM)
    calendarWriter.write("\"" + i[0] + "\"\n");
    String daysOfWeek[] = {"Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"};
    for (String j : daysOfWeek)
        if (j != "Sat") calendarWriter.write(j + ", ");
        else calendarWriter.write(j);
    calendarWriter.write(str:"\n");
    for (int j = 1; j \leftarrow (int) i[1]; j++)
        for (int k = start; k  <= 7; k++)
            start = k;
            if (j > (int) i[1]) break;
            if (j == 1)
                for (int l = 1; l < start; l++)
                   calendarWriter.write(str:"_, ");
            if (k < 7 \&\& j < (int) i[1]) calendarWriter.write(j + ", ");
            else calendarWriter.write(j + "");
            if (k != 7) j++;
            else start = 1;
        calendarWriter.write(str:"\n");
    calendarWriter.write(str:"\n_,\n");
calendarWriter.close();
```

```
122
              catch (IOException e)
                  System.out.println(x:"An error occurred.");
                  e.printStackTrace();
          public static void printCalendar(Object[][] cal)
              for (Object i[] : cal)
                  System.out.print(i[0] + ": ");
                  for (int j = 1; j \leftarrow (int) i[1]; j++)
                      if (j != (int) i[1]) System.out.print(j + ", ");
                      else System.out.print(j);
                  System.out.println();
              System.out.println();
          public static int printMonth(Object[] month, int startDay)
              System.out.println(month[0]);
              String daysOfWeek[] = {"Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"};
              for (String i : daysOfWeek)
                  System.out.printf(i + "\t");
              System.out.println();
              for (int i = 1; i \leftarrow (int) month[1]; i++)
```

```
for (int j = startDay; j <= 7; j++)
                      startDay = j;
                      if (i > (int) month[1]) break;
                      if (i == 1)
                          for (int k = 1; k < startDay; k++)
                              System.out.printf(format:"\t");
171
                      System.out.printf(i + "\t");
172
                      if (j != 7) i++;
173
                      else startDay = 1;
175
176
                  if (!(i >= (int) month[1])) startDay = 1;
                  System.out.println();
178
179
              return startDay;
181
182
184
```

Output Screenshots:

```
1: 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
2: 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
3: 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
4: 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
6: 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
6: 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
6: 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
8: 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
8: 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
10: 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
11: 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
11: 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
11: 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
11: 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
```

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 Febuary: 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, 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, 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, 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 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 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 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

January							
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
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22	23	24	25	26	27	28	
29	30	31					
Febuary	,						
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26	27	28					
March							
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12	13	14	15	16	17	18	
19	20	21	22	23	24	25	
26	27	28	29	30	31		
April		_					
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16	17	18	19	20	21	22	
23	24	25	26	27	28	29	
30							
May							
May	Mon	Tue	Uod	Thu	En:	Cot	
Sun	Mon 1	Tue	Wed	Thu	Fri	Sat	
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14	15	16	17	18	19	20	
21	22	23	24	25	26	27	
28	29	30	31				

June						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
Juli	11011	Tuc	WC u	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	24
23	20	21	20	23	50	
July						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
Juli	11011	Tuc	ricu	ma		1
2	3	4	5	6	7	8
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	23	20	2,	20	23
20	J1					
August						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
34		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		
	20		30	31		
Septemb	er					
Sun	Mon	Tue	Wed	Thu	Fri	Sat
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10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
October						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

November							
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
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12	13	14	15	16	17	18	
19	20	21	22	23	24	25	
26	27	28	29	30			
Decemb	er						
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
					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							

	_						
It is a leap year 2024							
MONDAY							
January							
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
34	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				
Febuary							
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
				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							
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
				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							
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
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							
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
		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								
Sun	Mon	Tue	Wed	Thu	Fri	Sat		
					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								
Sun	Mon	Tue	Wed	Thu	Fri	Sat		
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								
Sun	Mon	Tue	Wed	Thu	Fri	Sat		
			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			
Septemb	er							
Sun	Mon	Tue	Wed	Thu	Fri	Sat		
						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								
Sun	Mon	Tue	Wed	Thu	Fri	Sat		
	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							
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
				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		
Decembe	er						
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
						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						

```
"Month"
"January"
Sun, Mon, Tue, Wed, Thu, Fri, Sat
_, 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
"Febuary"
Sun, Mon, Tue, Wed, Thu, Fri, Sat
_, _, _, 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"
Sun, Mon, Tue, Wed, Thu, Fri, Sat
_, _, _, 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"
Sun, Mon, Tue, Wed, Thu, Fri, Sat
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"
Sun, Mon, Tue, Wed, Thu, Fri, Sat
_, _, 1, 2, 3, 4, 5
6, 7, 8, 9, 10, 11, 12
13, 14, 15, 16, 17, 18, 19
```

```
"June"
Sun, Mon, Tue, Wed, Thu, Fri, Sat
_, _, _, _, _, <u>1,</u> 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"
Sun, Mon, Tue, Wed, Thu, Fri, Sat
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"
Sun, Mon, Tue, Wed, Thu, Fri, Sat
_, _, _, 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"
Sun, Mon, Tue, Wed, Thu, Fri, Sat
1 ر_ ر_ ر_ ر_ ر_
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"
Sun, Mon, Tue, Wed, Thu, Fri, Sat
_, 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"
Sun, Mon, Tue, Wed, Thu, Fri, Sat
_, _, _, 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"
Sun, Mon, Tue, Wed, Thu, Fri, Sat
_, _, _, _, _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
```

**CSV Viewer Output:** 

Month T	Y	Y	Y	Y	Y	Y
January						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
_	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			
_						
Febuary						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
_		_	_	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						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
_		-	-	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						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
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						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
_		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						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
_				_	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						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
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						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
_			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						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						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						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
_	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						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
_	_	-	-	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						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
_						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					

Testing: I test this program by running it and walking through the code, seeing how each line works. Furthermore, I was able to use a debugger with the code editor I used (Visual Studio Code) that allowed me to go through the code line by line the way it executes, checking variable values and seeing if anything goes wrong and how. I also make sure to comment out previous lines when I test one so I don't have to test unnecessary code.

## Code:

```
import java.time.Year;
import java.io.File;
import java.io.FileWriter;
import java.io.IOException;
public class Main
    public static void main(String[] args)
        // Part 1: Display month loop
        Object yearly[] [] = \{\{1,31\},\{2,28\},\{3,31\},\{4,30\},\{5,31\},\{6,30\},\{7,31\},
            {8,31}, {9,30}, {10,31}, {11,30}, {12,31}};
        printCalendar(yearly);
        // Part 2: Display month loop with names
        Object yearlyM[][] = {{"January",31},{"Febuary",28},{"March",31},
            {"April", 30}, {"May", 31}, {"June", 30}, {"July", 31}, {"August", 31},
            {"September", 30}, {"October", 31}, {"November", 30}, {"December", 31}};
        printCalendar(yearlyM);
        // Part 3: Format and display weekly output
        int start = 1;
        for (Object[] i : yearlyM)
            start = printMonth(i, start);
            System.out.println();
        // Part 4: Getting current year and getting correct day to start the
year and displaying the calendar again with the correct
        // start day for this year and checking leap year
        int year = Year.now().getValue();
        boolean isLeap = Year.now().isLeap();
        if (isLeap) System.out.println("It is a leap year");
        else System.out.println("It is not a leap year");
        System.out.println(year);
        String firstDay = Year.now().atDay(1).getDayOfWeek().name();
        System.out.println(firstDay);
        switch (firstDay)
```

```
case "MONDAY":
                start = 2;
                break;
            case "TUESDAY":
                start = 3;
                break;
            case "WEDNESDAY":
                start = 4;
                break;
            case "THURSDAY":
                start = 5;
                break;
            case "FRIDAY":
                start = 6;
                break;
            case "SATURDAY":
                start = 7;
                break;
            case "SUNDAY":
                start = 1;
                break;
        }
        for (Object[] i : yearlyM)
            start = printMonth(i, start);
            System.out.println();
        }
        // Part 5: Writing the calendar to a CSV file
        start = Year.now().atDay(1).getDayOfWeek().getValue() + 1;
        try
            File calendarFile = new File("calendar.csv");
            FileWriter calendarWriter = new FileWriter("calendar.csv");
            calendarWriter.write("\"Month\"\n");
            for (Object[] i : yearlyM)
                calendarWriter.write("\"" + i[0] + "\"\n");
                String daysOfWeek[] = {"Sun", "Mon", "Tue", "Wed", "Thu",
"Fri", "Sat"};
```

{

```
for (String j : daysOfWeek)
                     if (j != "Sat") calendarWriter.write(j + ", ");
                     else calendarWriter.write(j);
                calendarWriter.write("\n");
                for (int j = 1; j <= (int) i[1]; j++)
                     for (int k = start; k \le 7; k++)
                         start = k;
                         if (j > (int) i[1]) break;
                         if (j == 1)
                             for (int l = 1; l < start; l++)
                                 calendarWriter.write("_, ");
                         if (k < 7 && j < (int) i[1]) calendarWriter.write(j +</pre>
", ");
                         else calendarWriter.write(j + "");
                         if (k != 7) j++;
                         else start = 1;
                     }
                     // \text{ if } (!(j >= (int) i[1])) \text{ start } = 1;
                     calendarWriter.write("\n");
                }
                calendarWriter.write("\n ,\n");
            }
            calendarWriter.close();
        catch (IOException e)
            System.out.println("An error occurred.");
            e.printStackTrace();
    }
    public static void printCalendar(Object[][] cal)
        for (Object i[] : cal)
            System.out.print(i[0] + ": ");
```

```
for (int j = 1; j <= (int) i[1]; j++)
                if (j != (int) i[1]) System.out.print(j + ", ");
                else System.out.print(j);
            System.out.println();
        System.out.println();
   public static int printMonth(Object[] month, int startDay)
        System.out.println(month[0]);
        String daysOfWeek[] = {"Sun", "Mon", "Tue", "Wed", "Thu", "Fri",
"Sat"};
        for (String i : daysOfWeek)
            System.out.printf(i + "\t");
        System.out.println();
        for (int i = 1; i <= (int) month[1]; i++)</pre>
            for (int j = startDay; j <= 7; j++)
                startDay = j;
                if (i > (int) month[1]) break;
                if (i == 1)
                    for (int k = 1; k < startDay; k++)
                        System.out.printf("\t");
                System.out.printf(i + "\t");
                if (j != 7) i++;
                else startDay = 1;
            }
            if (!(i >= (int) month[1])) startDay = 1;
            System.out.println();
```

```
return startDay;
}
```