

PLANNING A PROGRAM

➔ Write a program that will print out an HTML calendar for the current month.

General Plan:

- get the month and year
- print the HTML header info
- print the first line(s) of the calendar
- print the rest of the calendar
- print the HTML ending info

More details:

- *We need to know find out what day of the week the first of the month is. Probably find a Java class to do this.*
 - *The first line of the calendar will be different because it has blank spaces*
 - *It would be really good to be able to write to a file instead of just printing it out.*
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Global variables

String month

int year

int numdays; This will be the number of days in the month (31,30,28).

int DofW; This variable will hold the day of the week upon which the first of the month falls.
1=Sunday, 2=Monday, ... 7=Saturday

String filename = "Dec2017.html" //This will be the output filename based on the month and year.

Methods

/* This method will get the first day of the month based on the month and year. It returns an int that encodes the day of the week (as seen above). */

int getFirstDay(){}

void printHTMLheader(){}

/* This method will print out the first row of the calendar. It will print DofW -1 blank squares first. */

void printFirstRow(in DofW){}

/* This method will print one row (7 days) of the calendar starting with 'start'.

* It will also do the last row of the calendar, stopping when it reaches numdays,

* and then adding blank squares up to seven. << This last part might be better in a separate method

* if it gets too complicated. */

void printRow(int start){}

void printHTMLfooter(){}

main() {}

- the main method will open the file for writing (this should be stored in a global variable)
- it will also call the appropriate methods in the correct order.

SEE: <https://introcs.cs.princeton.edu/java/21function/Calendar.java.html>

Main method:

```
public void whenWriteStringUsingBufferedWritter_thenCorrect()
    throws IOException {
    String str = "Hello";
    BufferedWriter writer = new BufferedWriter(new FileWriter(fileName));
    writer.write(str);

    writer.close();
}
```