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C: output; control structures

Announcements

- Before next class:read DiS sections and answer pre-class questions
- Lab 1: today & tomorrow

Outline

- Warm-up
- Output
- Control structures

Warm-up

Q1: Write a program that prints the number of days, hours, and minutes in a week.

```
#include <stdio.h>
int main() {
}
```

Output practice

Q2: Use print f to output today's date (e.g., 2021–1–29)

Q3: Use printf to output the dimensions of a college basketball court (94ft \times 50ft)

Q4: Use printf to output a patient's first and last initial and systolic and diastolic blood pressure (e.g., A.G. 115/70)

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Control structures practice

Q5: Write a program that flips a coin: call random() to generate a random number, and print heads if the number is even and tails if the number is odd.

<pre>#include <</pre>	>				
<pre>#include <</pre>	>				
Q6: Write a program tl	hat prints all even nur	mbers from 1 to 1	00 using a for lo	ор.	
#include <std< td=""><td>io.h></td><td></td><td></td><td></td><td></td></std<>	io.h>				

Q7: Write a program that prints every letter of the alphabet in upper and lower case: AaBbCcDd . . . YyZz

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Q8: Write a program that prints all numbers from 1 to 100, except:

- If the number is divisible by 3 then print Three
- If the number is divisible by 5 then print Five
- If the number is divisible by 3 and 5, print Both

Extra practice

Q9: Write a program that prints out the powers of 2 from 2 through 2048.

Q10: Write the same program as in Q6 using a while loop.

#include <stdio.h>

Worksheet created by Professor Aaron Gember-Jacobson