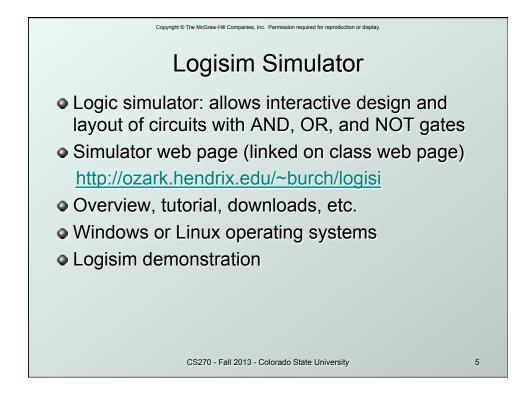
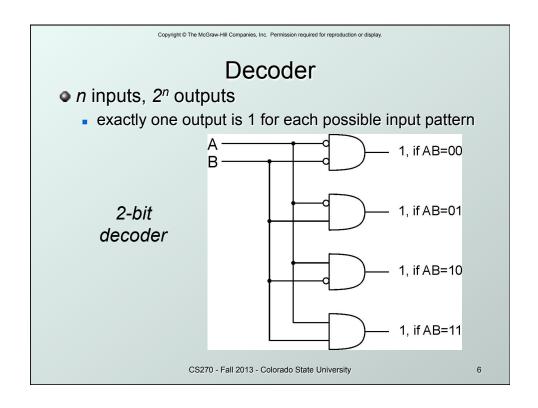
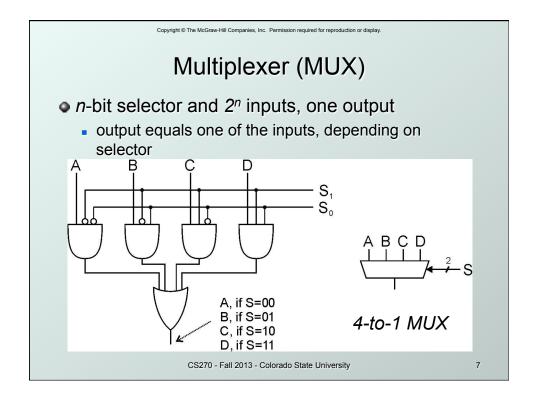
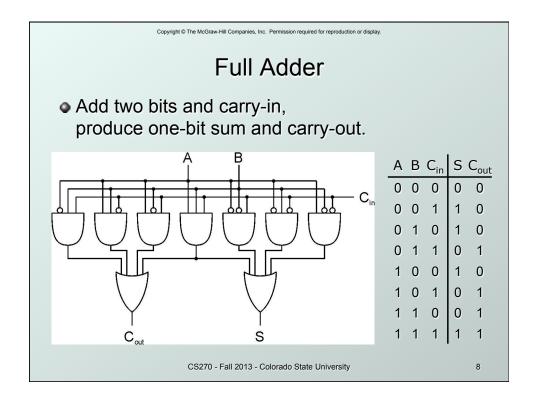


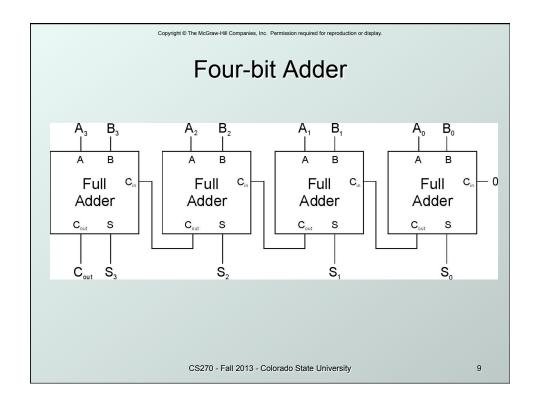
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Truth Table (from circuit)												
• Hut	Truth table for circuit on previous slide											
	Α	В	С	W	X	Y	z					
	0	0	0	0	0	0	1					
	0	0	1	0	1	1	1					
	0	1	0	0	1	1	1					
	0	1	1	0	1	1	1					
	1	0	0	0	0	0	1					
	1	0	1	0	1	1	1					
	1	1	0	1	1	0	0					
	1	1	1	1	1	0	0					
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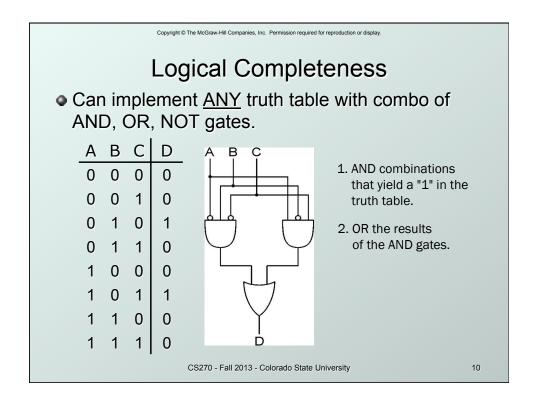




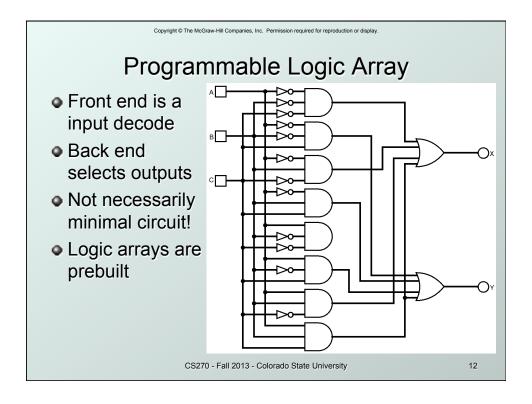


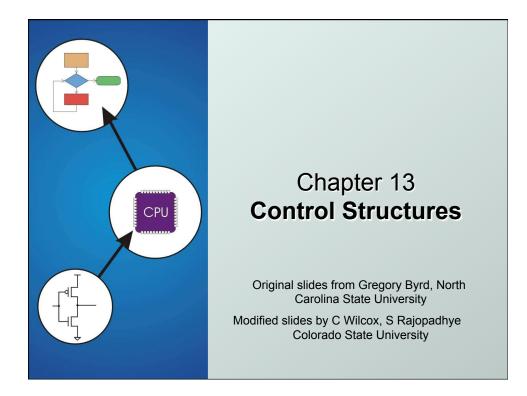


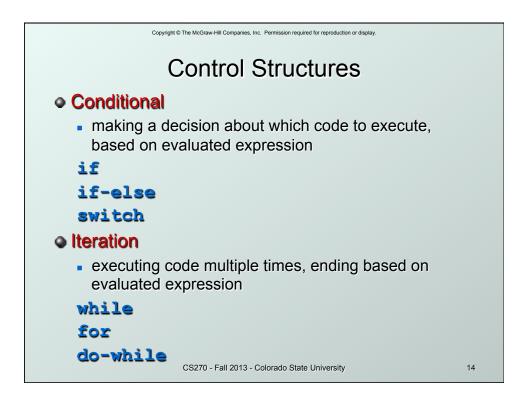


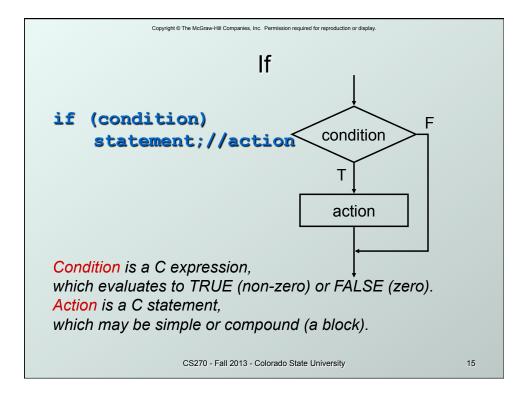


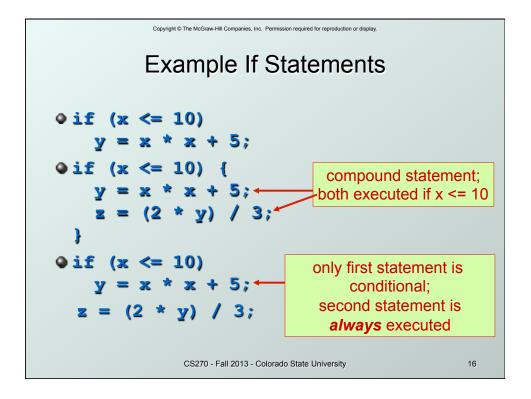
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Truth Table (to circuit)												
• How do we design a circuit for this?												
	Α	В	С	X	Y							
	0	0	0	1	0							
	0	0	1	0	1							
	0	1	0	1	0							
	0	1	1	0	1							
	1	0	0	0	0							
	1	0	1	0	1							
	1	1	0	1	0							
	1	1	1	1	1							
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					•							

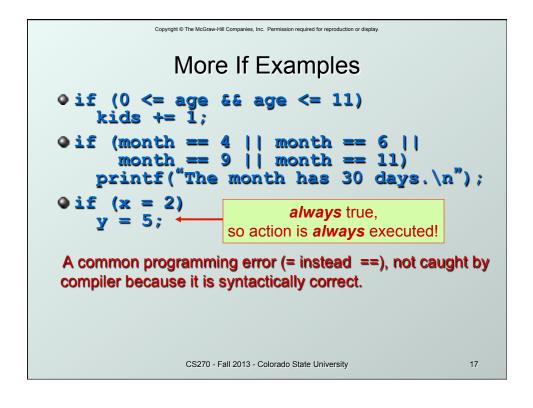


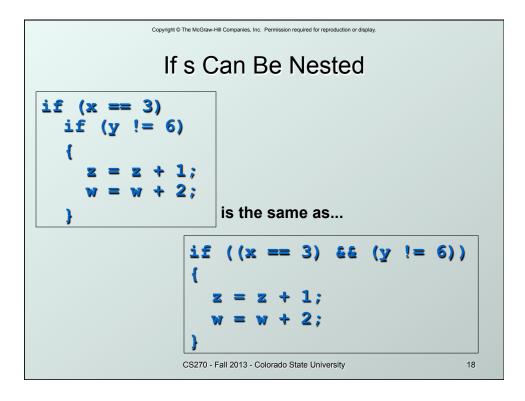


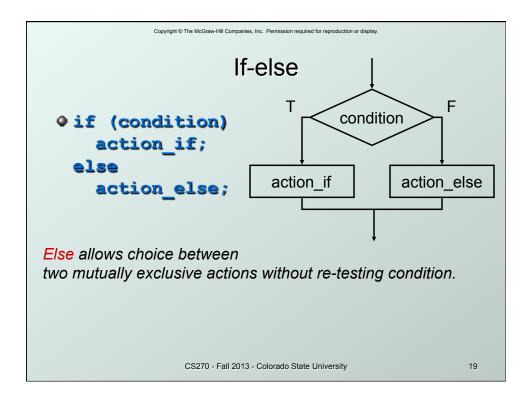


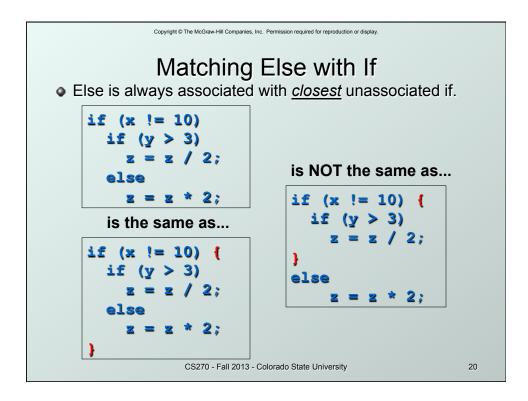


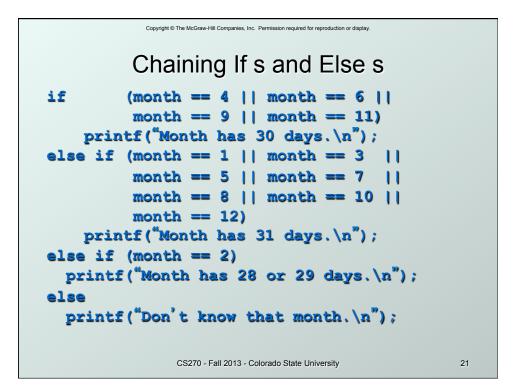


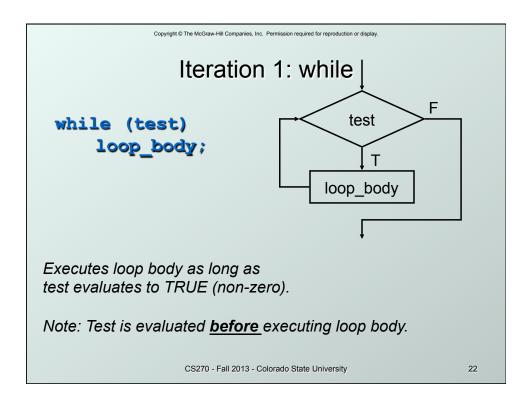


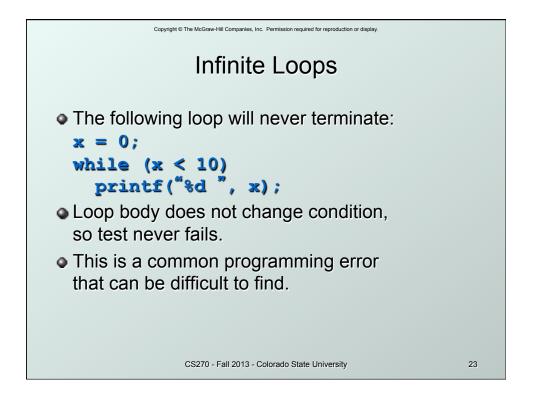


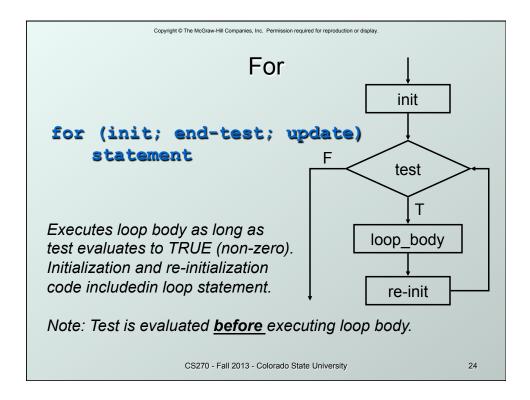




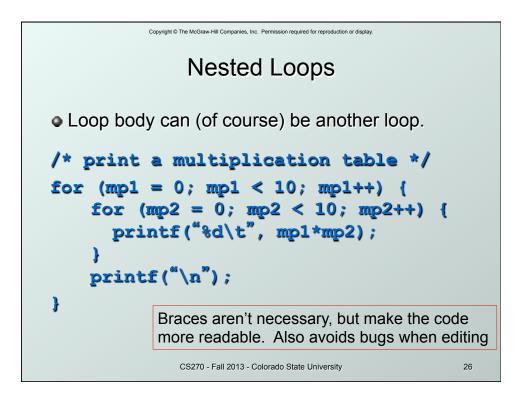


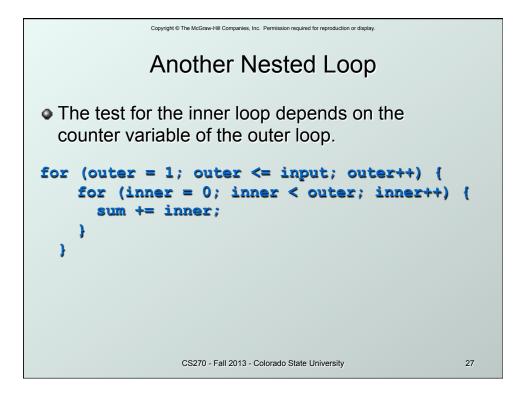


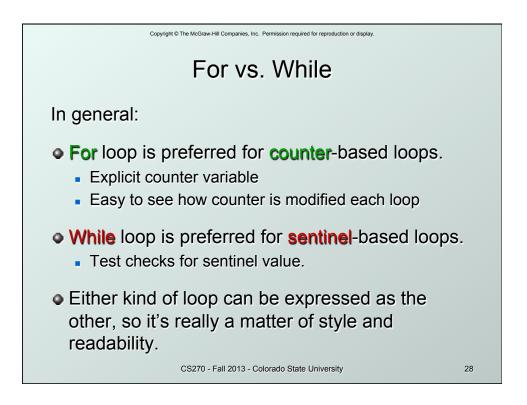


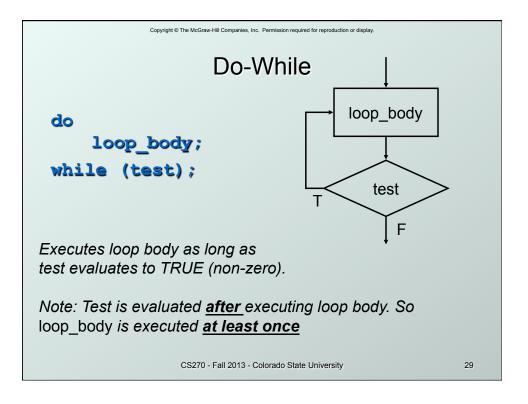


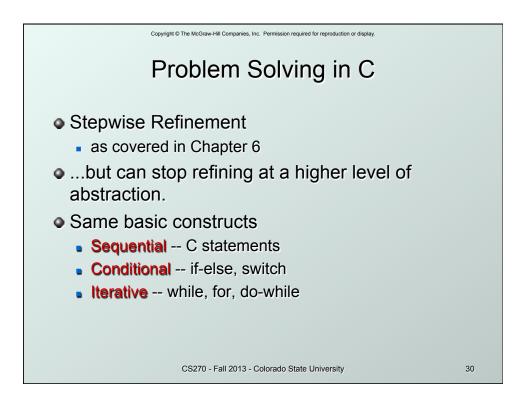
```
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              Example For Loops
/* -- what is the output of this loop? -- */
for (i = 0; i <= 10; i ++)
    printf("%d ", i);
/* -- what does this one output? -- */
letter = 'a';
for (c = 0; c < 26; c++)
    printf("%c ", letter+c);
/* -- what does this loop do? -- */
numberOfOnes = 0;
  for (bitNum = 0; bitNum < 16; bitNum++) {
     if (inputValue & (1 << bitNum))
       numberOfOnes++;
  }
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```

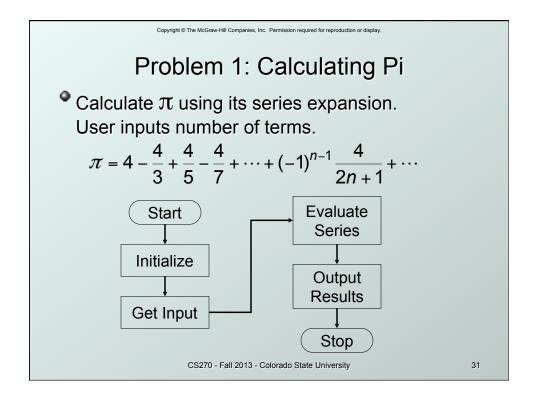


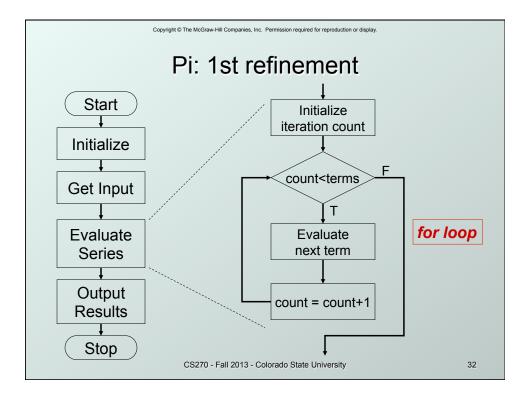


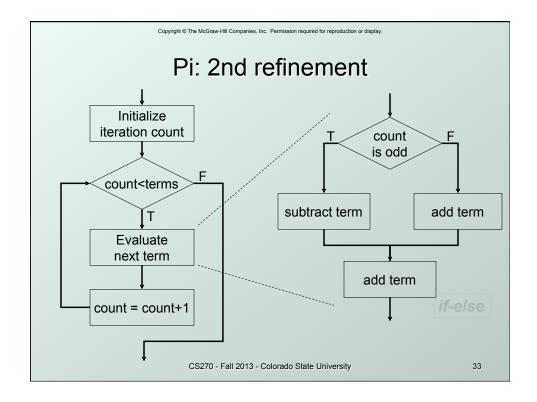


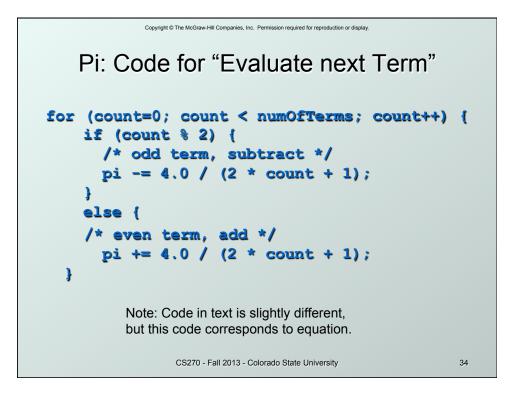


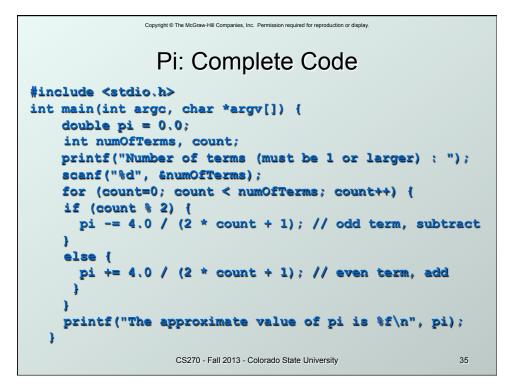


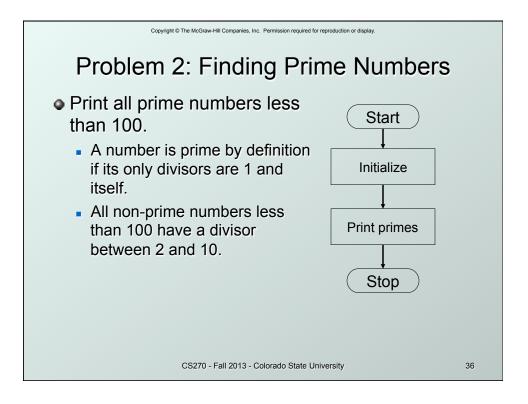


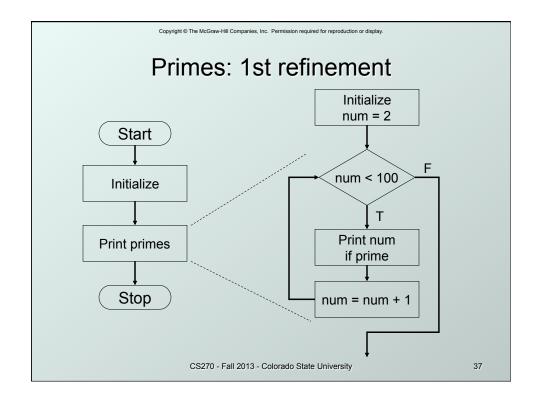


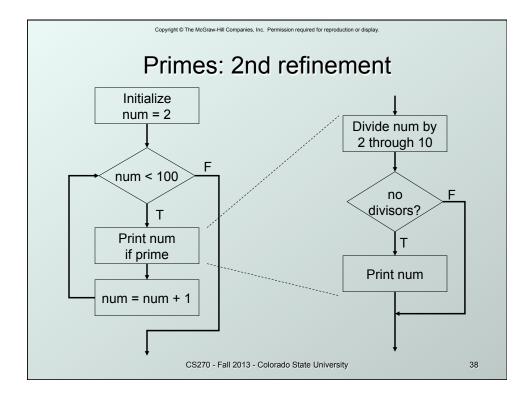


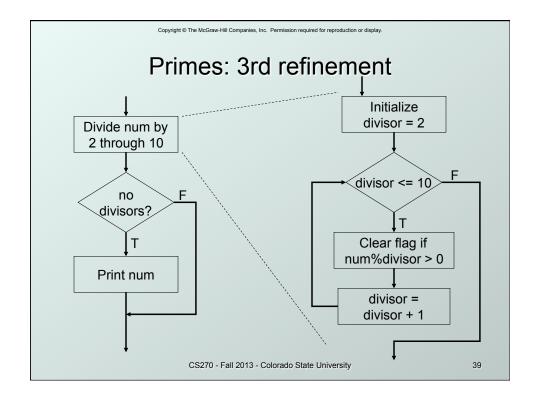


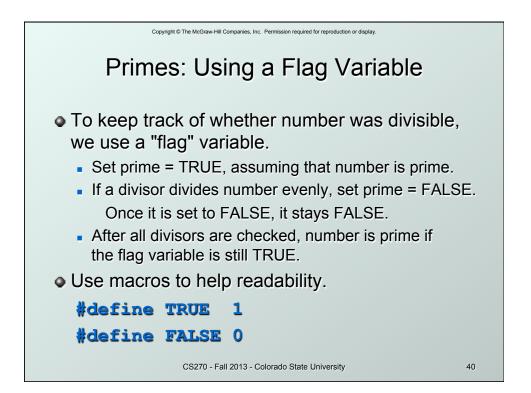


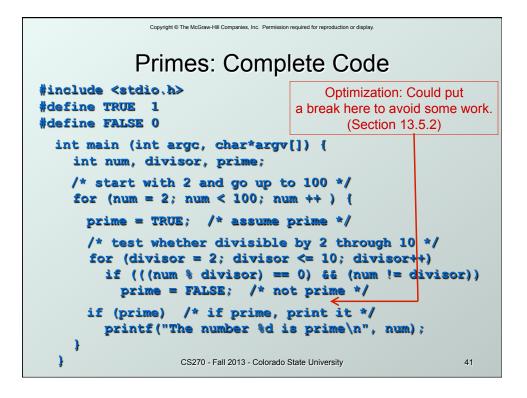


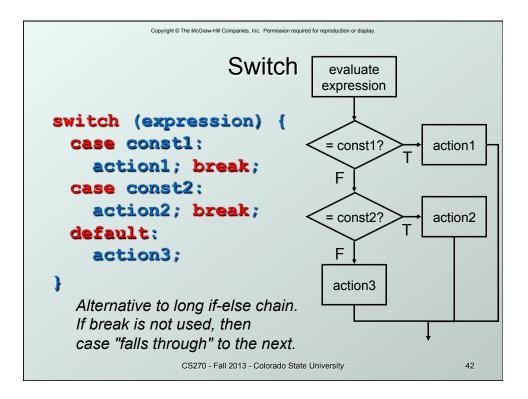












```
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                      Switch Example
/* same as month example for if-else */
switch (month) {
     case 4:
     case 6:
     case 9:
     case 11:
       printf("Month has 30 days.\n");
       break;
     case 1:
     case 3:
       printf("Month has 31 days.\n");
       break;
     case 2:
       printf("Month has 28 or 29 days.\n");
       break;
     default:
       printf ("Don't know that month. \n");
}
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```

