

## Last Time

- We
   Learnt about nested if/else selection structures
  - o Were introduced to the while repetition structure

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- Today we will
  - o Review

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# Key Ingredients of while loops Initialize MUST initialize loop control variable

- Test
   The value of the loop control variable is tested during each iteration of loop
- Update

Loop control variable is changed during each loop iteration

If any one of these is missing or incorrect, your loop won't run properly--not at all, too many/few times or infinitely.

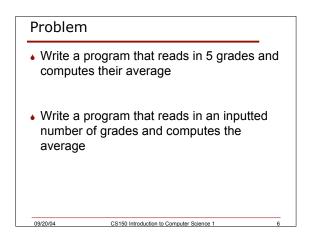
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# Problems • What's the output for x = 2? 3? 5? cout << "Enter an integer"; cin >> x; product = x; count = 0; while (count < 4) { cout << product << endl; product \*= x; count += 1; } 092004 CS150 Introduction to Computer Science 1 4</pre>

## Problem

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```
• What's wrong? Correct the program:
count = 0;
while (count <= 5)
cout << "Enter data item; ";
cin >> item;
item += sum;
count += 1;
cout << count << " data items" <<
"were added" << endl;
cout << "Their sum is " << sum << endl;
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```



## Summary

 In today's lecture we reviewed the material we've covered so far this semester

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Readings

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o Study for the midterm on Friday!