Break and Continue

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Objectives

- To implement program control with break and continue (§5.12).

Outline

- Discussed

  - Concept of loops

  - while Loop vs. do-while Loop vs. for Loop

  - Nested Loops

  - Pitfalls and errors

- Loop control using break and continue

Using break and continue

- break and continue can control the execution of a loop

break

```java
public class TestBreak {
  public static void main(String[] args) {
    int sum = 0;
    int number = 0;

    while (number < 20) {
      number++;
      sum += number;
      if (sum >= 100)
        break;
    }

    System.out.println("The number is " + number);
    System.out.println("The sum is " + sum);
  }
}
```
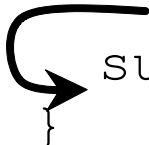
continue

```
public class TestContinue {
  public static void main(String[] args) {
    int sum = 0;
    int number = 0;

    while (number < 20) {
      number++;
      if (number == 10 || number == 11)
        continue;
      sum += number;
    }

    System.out.println("The sum is " + sum);
  }
}
```

Questions?

Guessing Number Problem Revisited

- "break" out of the loop when the guess is correct.

Adding Positive Numbers

- Suppose a user can enter any numbers repeatedly. Write a program to add only positive numbers from the input.

Questions?