

Extend Java Knowledge

- while (more-basic-java-to-learn)
 - {
 - Compare two different Java programs
 - Describe a Java program
 - }

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Extend Java Knowledge

Slide 1

Compare Java

- Use
 - BMI_2_Functions.java
 - BMI_3_Methods_Obj.java
- Do in pairs
- Goal
 - Find as many differences as you can between these two programs.

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Extend Java Knowledge

Slide 2

Compare Java

- while (more_differences)
 - {
 - Advance to next pair
 - Have this pair identify one difference
 - }
- Any differences not identified?
- Briefly describe Java code
 - Use appropriate terminology
 - Review separation of concerns, design for reuse, and design only what is needed

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Slide 3

Describe Java Program

(BMI_3_Methods_Obj.java)

- Have students write a description of what BMI_3_Methods_Obj.java does.
 - Do in pairs.
 - (Instructor gives no direction about level of detail to include in their description.)
- Pick a few descriptions and discuss each.
 - Different perspectives?

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Slide 4

Textbook

(BMI_3)

- **Previously covered**

- Most of chapter 2 (Java basics) & chapter 3 (selection)
- Covered 4.2 (common math functions)
- 5.2 (while)
- 6.2, 6.3 & 6.5 (defining/calling a method, passing args)
- 9.6 (using classes from Java API)
- 12.1 & 12.2 (exception handling)

- **Just covered**

- 9.2 (defining classes for objects)
- 9.4 (constructing objects using constructors)

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Slide 5

Compare Java

- **Use**

- BMI_3_Methods_Obj.java
- BMI_4_main.java & BMI_4_methods.java

- **Do in pairs**

- **Goal**

- Find as many differences as you can between these two programs.

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Slide 6

Compare Java

- while (more_differences)
 - {
 - Advance to next pair
 - Have this pair identify one difference
 - }
- Any differences not identified?
- Briefly describe Java code
 - Use appropriate terminology
 - Review separation of concerns, design for reuse, and design only what is needed

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Slide 7

Describe Java Program

(BMI_4_main.java)

- Have students write a description of what BMI_4_main.java does.
 - Do in pairs.
 - (Instructor gives no direction about level of detail to include in their description.)
- Pick a few descriptions and discuss each.
 - Different perspectives?

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Slide 8

Describe Java Program

(BMI_4_methods.java)

- Have students write a description of what BMI_4_methods.java does.
 - Do in pairs.
 - (Instructor gives no direction about level of detail to include in their description.)
- Pick a few descriptions and discuss each.
 - Different perspectives?



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Slide 9

Textbook

(BMI_4)

- Previously covered
 - Most of chapter 2 (Java basics) & chapter 3 (selection)
 - Covered 4.2 (common math functions)
 - 5.2 (while)
 - 6.2, 6.3 & 6.5 (defining/calling a method, passing args)
 - 9.2, 9.4 & 9.6 (define class, construct obj, Java API)
 - 12.1 & 12.2 (exception handling)
- Just covered
 - Each class in its own source code file!



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Slide 10

Compare Java

- Use
 - BMI_4_main.java & BMI_4_methods.java
 - BMI_5_main.java & BMI_5_methods1.java & BMI_5_bmi.java
- Do in pairs
- Goal
 - Find as many differences as you can between these two programs.

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Slide 11

Compare Java

- while (more_differences)
 - {
 - Advance to next pair
 - Have this pair identify one difference
 - }
- Any differences not identified?
- Briefly describe Java code
 - Use appropriate terminology
 - Review separation of concerns, design for reuse, and design only what is needed

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Slide 12

Describe Java Program

(BMI_5_methods1.java)

- Have students write a description of what BMI_5_methods1.java does.
 - Do in pairs.
 - (Instructor gives no direction about level of detail to include in their description.)
- Pick a few descriptions and discuss each.
 - Different perspectives?



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Slide 13

Describe Java Program

(BMI_5_bmi.java)

- Have students write a description of what BMI_5_bmi.java does.
 - Do in pairs.
 - (Instructor gives no direction about level of detail to include in their description.)
- Pick a few descriptions and discuss each.
 - Different perspectives?



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Slide 14

Compare Java

- Use
 - BMI_5_methods1.java
 - BMI_5_methods2.java
 - BMI_5_methods3.java
- Do in pairs
- Goal
 - Find as many differences as you can between these two programs.



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Slide 15

Textbook

(BMI_5)

- Previously covered
 - Most of chapter 2 (Java basics) & chapter 3 (selection)
 - Covered 4.2 (common math functions)
 - 5.2 (while)
 - 6.2, 6.3 & 6.5 (defining/calling a method, passing args)
 - 9.2, 9.4 & 9.6 (define class, construct obj, Java API)
 - 12.1 & 12.2 (exception handling)
 - Each class in its own source code file!
- Just covered
 - Better separation of concerns!
 - Better design for reuse!



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