RECITATION 2

IF / ELSE IF / ELSE BLOCKS

SWITCH STATEMENTS

▸ IF and ELSE IF statements check a condition, if true the code runs

▸ ELSE statement is a base case, and runs only if the IF and ELSE IF conditions evaluate false

▸ ELSE statements are not required in terms of syntax

▸ CASE statements check a value against what is being SWITCHED

▸ DEFAULT statement acts as the base case, and runs only if none of the CASE statements match what is being SWITCHED

▸ DEFAULT statements are not required in terms of syntax

▸ BREAK statement used to end SWITCH block after a case match

MULTIPLE IF STATEMENTS

▸ Multiple IF statements can be used to check a variety of conditions

  ▸ Remember that each of these statements will <u>always</u> be checked, even if a previous one evaluated to true

  ▸ Useful if conditions are not closely related

COMMON ERRORS

▸ Including a condition with an ELSE or DEFAULT statement

▸ Incorrect ordering of conditions

   ▸ if(height > 100) { // some code } else if(height > 200) { // some code }

   ▸ if(height > 200) { // some code } else if(height > 100) { // some code }

▸ Forgetting BREAK statements in a SWITCH block

CONCLUSION

▸ IF / ELSE IF / ELSE blocks and SWITCH blocks check multiple (and typically related) conditions

  ▸ ELSE and DEFAULT statements provide a base case

▸ Multiple IF statements can often perform same behavior, but is less efficient

  ▸ More useful when conditions are unrelated