Logic Assignment: I want you to play computer. Step through these problems and determine the result.

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| start  var1 = 10  var2 = 20  wksum = 0  rslt = 0  do while var2 < 30  wksum = var1 + var2  if wksum > 30  var1 = var1 - 2  var2 = var2 + 1  else  var1 = var1 - 1  var2 = var2 + 3  end if  end while loop  rslt = var1 + var2  display rslt  end | Problem #1: Using the pseudocode to the left follow the logic. When the pseudocode displays rslt, what number will rslt be? |
| start  var1 = 10  var2 = 20  wksum = 0  rslt = 0  do until var2 > 30  wksum = var1 + var2  if wksum > 30  var1 = var1 - 2  var2 = var2 + 1  else  var1 = var1 - 1  var2 = var2 + 3  end if  end until loop  rslt = var1 + var2  display rslt  end | Problem #2: Using the pseudocode to the left follow the logic. When the pseudocode displays rslt, what number will rslt be? |
| start  var1 = 10  var2 = 20  wksum = 0  rslt = 0  do until var2 >= 30  wksum = var1 + var2  if wksum > 30  var1 = var1 - 2  var2 = var2 + 1  else  var1 = var1 - 1  var2 = var2 + 3  end if  end until loop  rslt = var1 + var2  display rslt  end | Problem #3: Using the pseudocode to the left follow the logic. When the pseudocode displays rslt, what number will rslt b? |
| Problem #4: Did you get the same answer for 2 of the three problems above. If so explain why with a focus on the loop conditions. If not explain why with a focus on the loop conditions. | |
| start  var1 = 10  var2 = 20  wksum = 0  rslt = 0  do while var2 < 30  calculate()  end while loop  rslt = var1 + var2  display rslt  end    calculate()  wksum = var1 + var2  if wksum > 30  var1 = var1 - 2  var2 = var2 + 1  else  var1 = var1 - 1  var2 = var2 + 3  end if  return | **Problem #5: When the pseudocode displays rslt, what number will rslt be?**  **Note: When you execute a procedure or module like**  **calculate(), you branch out to the procedure or module and**  **execute it and then return and continue executing the main code.** |
| start  amt1 = 1  amt2 = 2  ans = 0  do while amt2 < 15  if amt1 > 10  amt1 = amt1 + 1  amt2 = amt2 + 1  else  amt1 = amt1 + 5  amt2 = amt2 + 5  end if  end while loop  ans = amt1 + amt2  display ans  end | Problem #6: When the pseudocode displays ans, what number will ans be? |
| Inventory File/Table where each record is invenRecord.   |  |  |  |  | | --- | --- | --- | --- | | itemNo | onHand | onOrder | reOrdPt | | 11111 | 20 | 40 | 50 | | 22222 | 20 | 30 | 50 | | 33333 | 25 | 15 | 50 | | 44444 | 10 | 50 | 75 | | 55555 | 20 | 0 | 40 | | 66666 | 10 | 25 | 25 | | EOF |  |  |  |   Note EOF means End of File | Problem #7: Show the output that would be generated if this pseudocode was executed using the data shown.  Note that I want to see the output from each of the records you process. |
| start  read invenRecord  do while not endOfFile  totInven = onHand + onOrder  if totInven > reOrdPt  toOrder = 0  else  toOrder = (reOrdPt – (onHand + onOrder)) + 100  end if  display toOrder  read invenRecord  end do while loop  stop program | |
| Inventory File where each record is invenRecord.   |  |  |  |  | | --- | --- | --- | --- | | itemNo | onHand | onOrder | reOrdPt | | 11111 | 20 | 40 | 50 | | 22222 | 20 | 30 | 50 | | 33333 | 25 | 15 | 50 | | 44444 | 10 | 50 | 75 | | 55555 | 20 | 0 | 40 | | 66666 | 10 | 25 | 25 | | EOF |  |  |  | | Problem #8: Show the output that would be generated if this pseudocode was executed using the data shown.  Note that I want to see the output from each of the records you process. |
| start  read invenRecord  do while not endOfFile  calcToOrder()  display toOrder  read invenRecord  end do while loop  stop program  calcToOrder()  totInven = onHand + onOrder  if totInven > reOrdPt  toOrder = 0  else  toOrder = reOrdPt – (onHand + onOrder)) \* 1.5  end if  return | |
| Inventory File where each record is invenRecord.   |  |  |  |  | | --- | --- | --- | --- | | itemNo | onHand | onOrder | reOrdPt | | 11111 | 20 | 40 | 50 | | 22222 | 20 | 30 | 50 | | 33333 | 25 | 15 | 50 | | 44444 | 10 | 50 | 75 | | 55555 | 20 | 0 | 40 | | 66666 | 10 | 25 | 25 | | EOF |  |  |  | | Problem #9: Show the output that would be generated if this peudocode was executed using the data shown.  Note that I want to see the output from each of the records you process. |
| start  read invenRecord  do while not endOfFile  processRecord()  read invenRecord  end do while loop  stop program  processRecord()  if onHand > onOrder  display onHand  else  totInven = onHand + onOrder  if totInven > reOrdPt  display totInven  else  display message “need to check”  end if  end if  return | |