Kelas: SE-48-03

Anggota Kelompok:

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\*sesuai kesepakatan dikelas, array pseudocode menggunakan index 1 bukan 0.

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| No | Pseudocode |
| 1 | Program Nilai  Kamus  result : string  totalStudent, highestStudent , i : integer  scoreStudent : array  Algoritma  input(totalStudent)  scoreSudent <- new int[totalStudent]  highestStudent <- 0    i <- 1  WHILE ( i <= studentTotal ) DO  input( scoreStudent[i] )  IF ( scoreStudent[i] > highestStudent) THEN  highestStudent <- scoreStudent[i]  END IF  i++  END WHILE  i <- 1  WHILE ( i <= totalStudent ) DO  result <- “F”  IF ( scoreStudent[ i ] >= highestStudent) THEN  result <- “A”  ELSE IF ( scoreStudent[ i ] >= highestStudent - 5 ) THEN  result <- “B”  ELSE IF ( scoreStudent[ i ] >= highestStudent - 10 ) THEN  result <- “C”  ELSE IF ( scoreStudent[ i ] >= highestStudent - 15 ) THEN  result <- “D”  ELSE IF ( scoreStudent[ i ] >= highestStudent - 20 ) THEN  result <- “E”  END IF  output("Mahasiswa “, i, “ memiliki nilai “, scoreStudent[i], “ dan mendapat nlai “, result)  i++  END WHILE  Endprogram |
| 2 | Program Nilai  Kamus  result : string  i : integer  inputScore : array  Algoritma  inputScore <- new int[ 11 ]    i <- 1  WHILE ( i <= 11) DO  input( inputScore[ i ] )  i++  ENDWHILE  i <- 1  WHILE ( i <= 11 ) DO  result <- “sama dengan”  IF ( inputScore[ i ] > inputScore[ 11 ] ) THEN  result <- “lebih besar”  ELSE IF ( inputScore[ i ] > inputScore[ 11 ] ) THEN  result <- “lebih kecil”  END IF  output("\nBilangan ke-“, ( i ), result, “ dari bilangan ke-11”)  i++  ENDWHILE  Endprogram |
| 3 | Program Membaca Nilai  Kamus  userInput, userInputArray : array  numberCount, currentNumber, i : integer  Algoritma  input( userInput.split(“ “) )  userInputArray <- new int[userInput.length]  i <- 1  WHILE ( i <= userInput.lenght ) DO  userInputArray[ i ] <- Integer.parseInt( userInput[ i ] )  IF ( userInputArray[ i ] < 0 || userInputArray[ i ] > 50 ) THEN  output( “Invalid input. )  return  END IF  i++  END WHILE  userInputArray <- Arrays.sort( userInputArray )  i <- 1  numberCount <- 0  currentNumber = -1  WHILE ( i < userInput.length ) DO  IF ( currentNumber != userInputArray && currentNumber != -1 ) THEN  output( currentNumber, “ muncul “, numberCount, “ kali” )  numberCount <- 0  END IF    currentNumber = userInputArray[ i ]  numberCount++  i++  END WHILE  output( currentNumber, “ muncul “, numberCount, “ kali” )  Endprogram |
| 4 | Program Bilangan Prima  Kamus  n, i, multipliedNumber : integer  primeNumber : array of boolean  Algoritma  n <- 50  primeNumber <- new boolean[n +1]  Arrays.fill( primeNumber, true )  primeNumber[ 0 ] <- false  primeNumber[ 1 ] <- false  i <- 2  WHILE ( i \* i <= n ) DO  IF ( primeNumber[ i ] ) THEN  multipliedNumber <- i  WHILE ( multipliedNumber <= n ) THEN  primeNumber[multipliedNumber] <- false  multipliedNumber += i  END WHILE  END IF  i++  END WHILE  i <- 2  WHILE ( i <= n ) DO  IF ( primeNumber[ i ] ) THEN  output( i, “ “ )  END IF  i++  END WHILE  Endprogram |