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KELAS / NO. ABSEN: SIB 3B / 16

PEMROGRAMAN MOBILE DART

Assignment - Tugas

Soal:

• Create a leetcode account and try to finish the problem set using dart language (choose one):

• Easy: 5 problems

• Medium: 2 problems

• Hard: 1 problem

• Buat akun leetcode dan coba selesaikan rangkaian soal menggunakan bahasa dart (pilih salah satu):

• Mudah: 5 soal

• Sedang: 2 soal

• Sulit: 1 soal

Jawaban:

Memilih soal yang mudah yaitu 5 soal

1. Penggunaan two sum

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∠ dart_leetcode

                                                               ] | … 錄 で + … | … 日 ~4
     ⋈ Welcome
                     soal1Mudah.dart X
      Soal1Mudah.dart > ...
            class Solution {
              List<int> twoSum(List<int> nums, int target) {
                Map<int, int> seen = {};
                 for (int i = 0; i < nums.length; i++) {</pre>
                   int complement = target - nums[i];
                                                                              Welcome to
                   if (seen.containsKey(complement)) {
                                                                                 Copilot
                    return [seen[complement]!, i];
                                                                               Let's get started
                   seen[nums[i]] = i;
                return [];
恕
                                                                                      void main() {
              var sol = Solution();
                                                                              ♣ Build Workspace
              print(sol.twoSum([2,7,11,15], 9));
                                                                                器 Show Config
       20
                                                                            Review AI output carefully
                                                                                  before use.
                                        ∑ powershell + ∨ □ · · · | [] ×
                         TERMINAL ...
      PS D:\(KULIAH) FRANSISKA WIDYA KRISANTI\SEMESTER 5\PEMROGRAMAN MOBILE
      (PEM MOB)\dart leetcode> dart run soal1Mudah.dart
      [0, 1]
      PS D:\(KULIAH) FRANSISKA WIDYA KRISANTI\SEMESTER 5\PEMROGRAMAN MOBILE
       (PEM_MOB)\dart_leetcode>
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2. Pengunaan palindrome

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                                                                          ··· + 5) 45 ··· | [
                    soal1Mudah.dart
                                        soal2Mudah.dart X
      soal2Mudah.dart > 🕅 main
                                                                class Solution {
              bool isPalindrome(int x) {
                String s = x.toString();
                String rev = s.split('').reversed.join();
                                                                          Welcome to
                return s == rev;
                                                                             Copilot
肸
                                                                           Let's get started
            void main() {
              var sol = Solution();
       12
              print(sol.isPalindrome(121));
83
              print(sol.isPalindrome(-121));
              print(sol.isPalindrome(10));
                                                                                  ♣ Build Workspace

⇔ Show Config

                                                                         Review AI output carefully
                                                                              before use.
                                      TERMINAL ...
      PS D:\(KULIAH) FRANSISKA WIDYA KRISANTI\SEMESTER 5\PEMROGRAMAN MOBILE
      (PEM MOB)\dart leetcode>
                                            dart run soal2Mudah.dart
      true
      false
      false
      PS D:\(KULIAH) FRANSISKA WIDYA KRISANTI\SEMESTER 5\PEMROGRAMAN MOBILE
      (PEM MOB)\dart leetcode>
```

3. Pengunaan roman to int

```
soal2Mudah.dart
     soal1Mudah.dart
      Soal3Mudah.dart > 分 main
            class Solution {
              int romanToInt(String s) {
                Map<String, int> values = {
                  'I': 1, 'V': 5, 'X': 10, 'L': 50,
                  'C': 100, 'D': 500, 'M': 1000
                int total = 0;
                for (int i = 0; i < s.length; i++) {
괌
                  int curr = values[s[i]]!;
                  int next = (i + 1 < s.length) ? values[s[i + 1]]
                  if (curr < next) {</pre>
                  total -= curr;
                  } else {
83
                    total += curr;
                return total;
            void main() {
              var sol = Solution();
       24
              print(sol.romanToInt("III"));
              print(sol.romanToInt("LVIII"));
              print(sol.romanToInt("MCMXCIV"));
                                      ∑ powershell + ∨ □ ··· | [] ×
                        TERMINAL ...
      PS D:\(KULIAH) FRANSISKA WIDYA KRISANTI\SEMESTER 5\PEMROGRAMAN MOBILE
      (PEM MOB)\dart leetcode> dart run soal3Mudah.dart
      58
      1994
      PS D:\(KULIAH) FRANSISKA WIDYA KRISANTI\SEMESTER 5\PEMROGRAMAN MOBILE
      (PEM MOB)\dart leetcode>
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4. Penggunaan valid parenthess

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                              Soal4Mudah.dart × ♣ ∨ 🗓 ···
                       soal3Mudah.dart
     soal2Mudah.dart
       🐧 soal4Mudah.dart > 😭 main
             class Solution {
               bool isValid(String s) {
                 List<String> stack = [];
                 Map<String, String> pairs = {')': '(', ']': '[', '
                 for (String ch in s.split('')) {
                                                                              W
                  if (pairs.containsValue(ch)) {
                     stack.add(ch);
괌
                   } else if (pairs.containsKey(ch)) {
                                                                               Let
                     if (stack.isEmpty || stack.removeLast() != pai
83
                 return stack.isEmpty;
             void main() {
               var sol = Solution();
               print(sol.isValid("()"));
                                                                             Review
               print(sol.isValid("()[]{}"));
               print(sol.isValid("(]"));
        23

    Dowershell + ∨ □ □ ··· | □ ×
                         TERMINAL ...
      PS D:\(KULIAH) FRANSISKA WIDYA KRISANTI\SEMESTER 5\PEMROGRAMAN MOBILE
       (PEM MOB)\dart leetcode> dart run soal4Mudah.dart
       true
       true
       false
      PS D:\(KULIAH) FRANSISKA WIDYA KRISANTI\SEMESTER 5\PEMROGRAMAN MOBILE
       (PEM MOB)\dart leetcode>
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5. Penggunaan merge two lists

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∠ dart_leetcode

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                                                                       ··· + 5) 🕸 ··· | [
                 soal4Mudah.dart
soal3Mudah.dart
 🦠 soal5Mudah.dart > 😭 main
       class ListNode {
         int val;
         ListNode? next;
         ListNode([this.val = 0, this.next]);
                                                                        Welcome to
                                                                           Copilot
       class Solution {
         ListNode? mergeTwoLists(ListNode? 11, ListNode? 12)
                                                                         Let's get started
           ListNode dummy = ListNode(0);
           ListNode tail = dummy;
           while (11 != null && 12 != null) {
             if (l1.val < l2.val) {
               tail.next = l1;
               11 = 11.next;
                                                                                 } else {
               tail.next = 12;
               12 = 12.next;
                                                                         ₽> Build Workspace
             tail = tail.next!;
                                                                           Show Config
           tail.next = (l1 != null) ? l1 : l2;
                                                                       Review Al output carefully
           return dummy.next;
                                                                             before use.
       void printList(ListNode? head) {
```

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∠ dart_leetcode

                                  soal4Mudah.dart
७ soal5Mudah.dart > ♥ main
     void printList(ListNode? head) {
       while (head != null) {
         print(head.val);
         head = head.next;
      void main() {
       var sol = Solution();
       var l1 = ListNode(1, ListNode(2, ListNode(4)));
       var l2 = ListNode(1, ListNode(3, ListNode(4)));
       var merged = sol.mergeTwoLists(l1, l2);
       printList(merged);
                               ∑ powershell + ∨ □ · · · | [] ×
                 TERMINAL
PS D:\(KULIAH) FRANSISKA WIDYA KRISANTI\SEMESTER 5\PEMROGRAMAN MOBILE
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