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152011513020/D3-Sistem Informasi
----Main----
package tugas3_152011513020;
import java.util.Scanner;
public class Tugas3_152011513020 {
   public static void main(String[] args) {
      Scanner input = new Scanner(System.in);
      System.out.println("-----");
      System.out.println("Praktikum 3");
      System.out.println("-----");
      Stack a;
      a = new Stack (5);
      System.out.println("-----");
      System.out.println("Nomor 1 Is Empty");
      System.out.println("-----");
      System.out.println("Stack kosong? " + a.isEmpty());
      System.out.print("\n");
      System.out.println("-----");
      System.out.println("Nomor 2 Is Full");
      System.out.println("-----");
      System.out.println("Stack penuh? " + a.isFull());
      System.out.print("\n");
      System.out.println("-----");
      System.out.println("Nomor 3 Push");
      System.out.println("-----");
      // Static
//
       a.push(92);
//
       a.push(23);
//
       a.push(46);
//
       a.push(51);
//
       a.push(64);
////
        a.push(53);
//
//
       a.printStack();
      // Dinamis
      System.out.print("Masukan max = ");
      int n = input.nextInt();
      a = new Stack (n);
      for (int i=0; i<n; i++){
```

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System.out.print("Input Stack [" + i + "] = ");
           int x = input.nextInt();
           a.push(x);
       }
       a.display();
       System.out.print("\n");
       System.out.println("-----");
       System.out.println("Nomor 4 Pop");
       System.out.println("-----");
       System.out.println("Data temp = " + a.pop());
   }
}
-----Class-----
package tugas3_152011513020;
public class Stack {
   int[] data;
   int top;
   int maxSize;
   Stack(int max){
       this.maxSize = max;
this.data = new int[maxSize];
       this.top
                    = -1;
   }
   // Nomor 1
   public boolean isEmpty(){
       if (top == -1){
           return true;
       }
       else return false;
   }
   // Nomor 2
   public boolean isFull(){
       if (top == maxSize-1){
           return true;
       else return false;
   }
   // Nomor 3
   public void push(int element){
       if (isFull() == false){
           top ++;
           data[top] = element;
       }
   }
   // Nomor 4
```

```
public int pop(){
    if (isEmpty() == false){
        int temp = data[top];
        top --;
        return temp;
    }
    else return 0;
}

public void display(){
    for (int i=0; i<maxSize; i++) {
        System.out.print(" " + data[i] + " ");
    }
    System.out.print("\n\n");
}</pre>
```