**package** com.google.engedu.wordstack;  
  
**import** android.content.Context;  
**import** android.view.View;  
**import** android.widget.LinearLayout;  
  
**import** java.util.EmptyStackException;  
**import** java.util.Stack;  
  
**public class** StackedLayout **extends** LinearLayout {  
  
 **private** Stack<View> **tiles** = **new** Stack();  
  
 **public** StackedLayout(Context context) {  
 **super**(context);  
 }  
  
 **public void** push(View tile) {  
  
 **if**(!**tiles**.isEmpty())  
 removeView(**tiles**.peek());  
 **tiles**.push(tile);  
 addView(tile);  
 }  
  
 **public** View pop() {  
 View popped = **null**;  
 popped = **tiles**.pop();  
 removeView(popped);  
 **try** {  
 addView(**tiles**.peek());  
 } **catch**(EmptyStackException e) {}  
  
 **return** popped;  
 }  
  
 **public** View peek() {  
 **return tiles**.peek();  
 }  
  
 **public boolean** empty() {  
 **return tiles**.empty();  
 }  
  
 **public void** clear() {  
 **if**(!**tiles**.isEmpty())  
 removeView(**tiles**.peek());  
 **tiles**.clear();  
 }  
}