**package** com.google.engedu.wordstack;  
  
**import** android.content.ClipData;  
**import** android.content.Context;  
**import** android.graphics.Color;  
**import** android.view.MotionEvent;  
**import** android.view.View;  
**import** android.view.ViewGroup;  
**import** android.view.ViewParent;  
**import** android.widget.LinearLayout;  
**import** android.widget.TextView;  
  
**public class** LetterTile **extends** TextView {  
  
 **public static final int *TILE\_SIZE*** = 150;  
 **private** Character **letter**;  
 **private boolean frozen**;  
  
 **public** LetterTile(Context context, Character letter) {  
 **super**(context);  
 **this**.**letter** = letter;  
 setText(letter.toString());  
 setTextAlignment(***TEXT\_ALIGNMENT\_CENTER***);  
 setHeight(***TILE\_SIZE***);  
 setWidth(***TILE\_SIZE***);  
 setTextSize(30);  
 setBackgroundColor(Color.*rgb*(255, 255, 200));  
 }  
  
 **public char** moveToViewGroup(ViewGroup targetView) {  
 ViewParent parent = getParent();  
 **if** (parent **instanceof** StackedLayout ) {  
 StackedLayout owner = (StackedLayout) parent;  
 owner.pop();  
 targetView.addView(**this**);  
 freeze();  
 setVisibility(View.***VISIBLE***);  
 } **else** {  
 ViewGroup owner = (ViewGroup) parent;  
 owner.removeView(**this**);  
 ((StackedLayout) targetView).push(**this**);  
 unfreeze();  
 }  
  
 **return letter**;  
 }  
  
  
 **public void** freeze() {  
 **frozen** = **true**;  
 }  
  
 **public void** unfreeze() {  
 **frozen** = **false**;  
 }  
  
 @Override  
 **public boolean** onTouchEvent(MotionEvent motionEvent) {  
  
 **if**(!**this**.**frozen** && motionEvent.getAction() == MotionEvent.***ACTION\_DOWN***){  
 **return** startDrag(  
 ClipData.*newPlainText*(**""**, **""**),  
 **new** View.DragShadowBuilder(**this**),  
 **this**,  
 0  
 );  
 }  
  
 **return super**.onTouchEvent(motionEvent);  
 }  
}