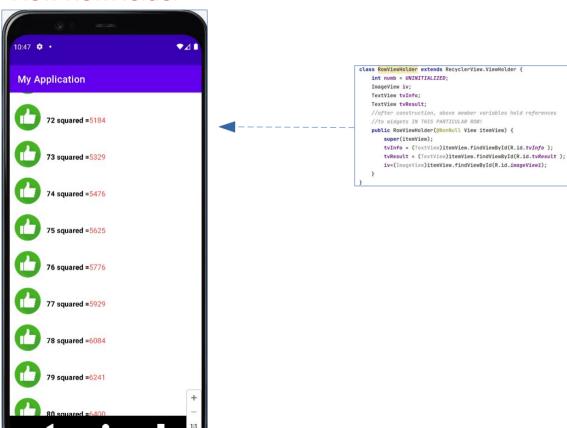
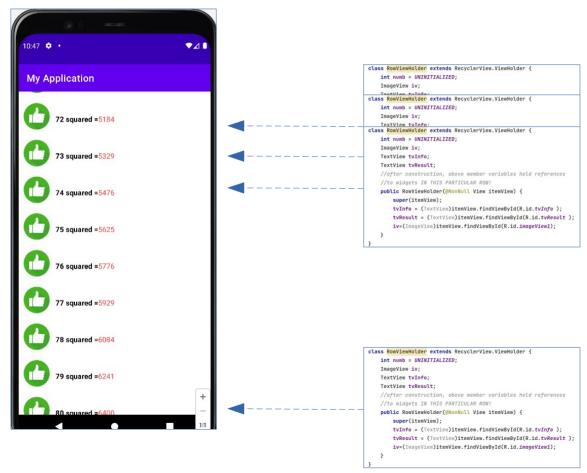
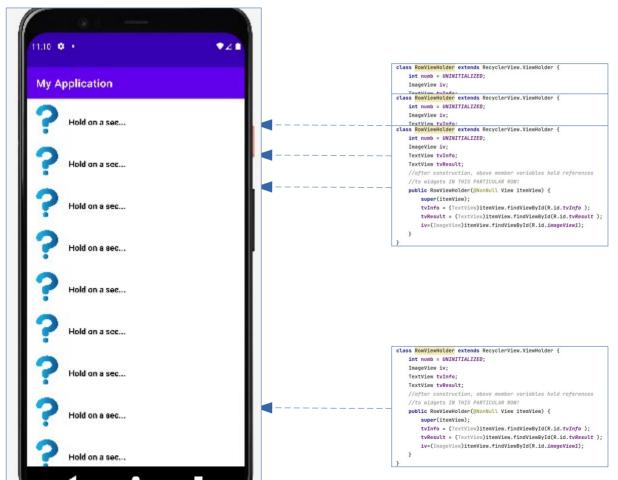
Each row is a separate RowViewHolder

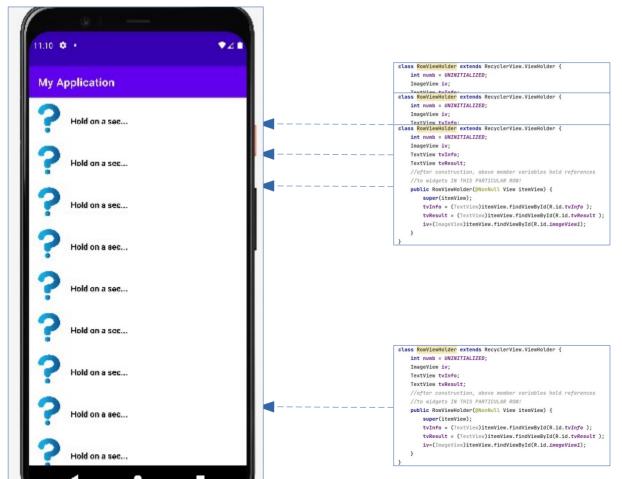


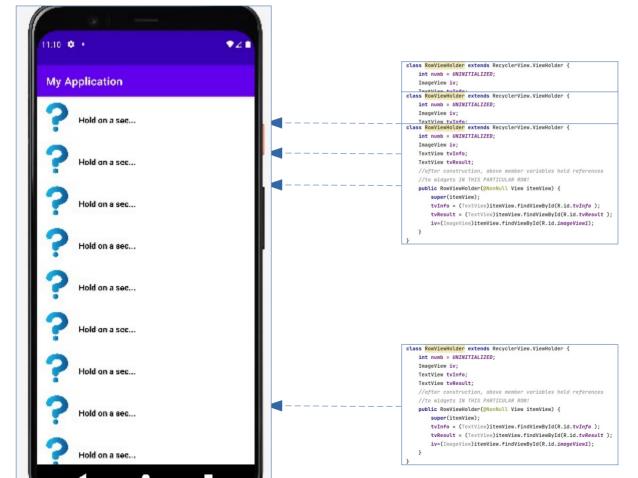
Each row is a separate RowViewHolder



Typically, some data is fast to get And some is not







```
public void onBindViewHolder(@Youtull RecyclerView.ViewHolder holder, int position)

//passing in an existing instance, reuse the internal resources

//passing in an existing instance, reuse the internal resources

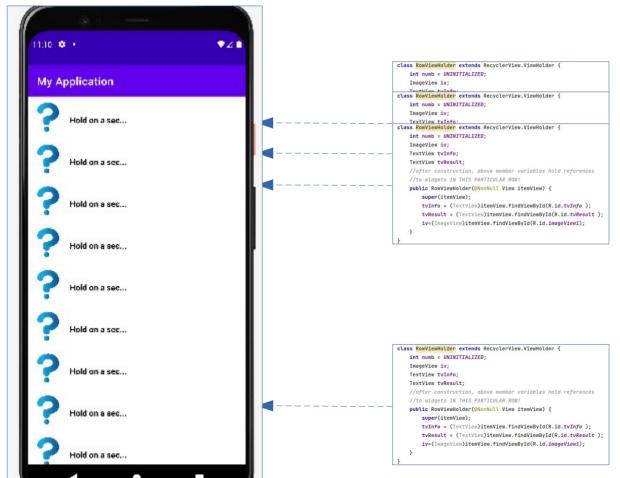
//passing in an existing instance, reuse the internal resources

RowViewHolder, viewHolder = (RowViewHolder) holder;

viewHolder, unumb = holder, getAdapterPosition();

//initialize the U//
viewHolder, in. settingge Resource (R. drawable, unknown);

viewHolder, in. setti
```



```
public void onBindyleyHolder(@lontull BecyclerView.ViewHolder holder, int position)

//passing in an existing instance, reuse the internal resources

//pass our data to our ViewHolder.

RowViewHolder, viewHolder = (RowViewHolder) holder;

viewHolder.numb = bolder.getAdapterCosition();

//initialize the UI

viewHolder.iv.setimageResource(R.drawable.unknown);

viewHolder.tv.RosetText("Hold on a sec...");

viewHolder.tv.RosetText("Hold on a sec...");

viewHolder.tv.RosetText("beld on a sec...");

//aunch a thread to view the Image (slow to get data)

GetNumber myTask = new GetNumber(viewHolder.(MainActivity) ctx);

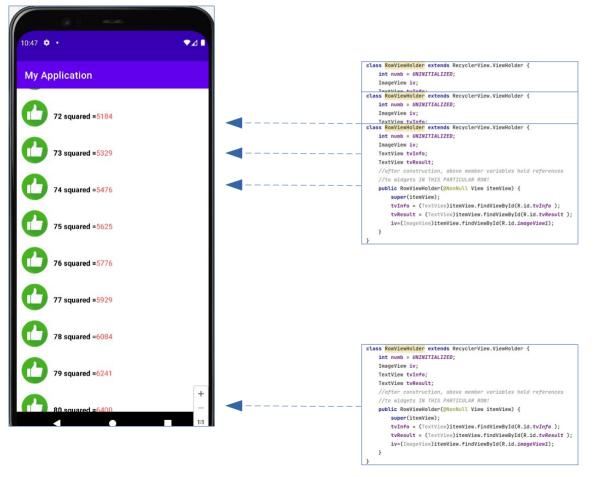
myTask.start();
```

```
public GetNumber (RowViewHolder mvVh. MainActivity act) {
    //hold on to a reference to this yiewholder
    //note that its contents (specifically iv) may change
    //iff the viewholder is recycled
    this mvVh = mvVh:
    //make a copy to compare later, once we have the image
    this original number = mvVh.numb;

    //hold on to the activity
    this act=act;

Thread constructor

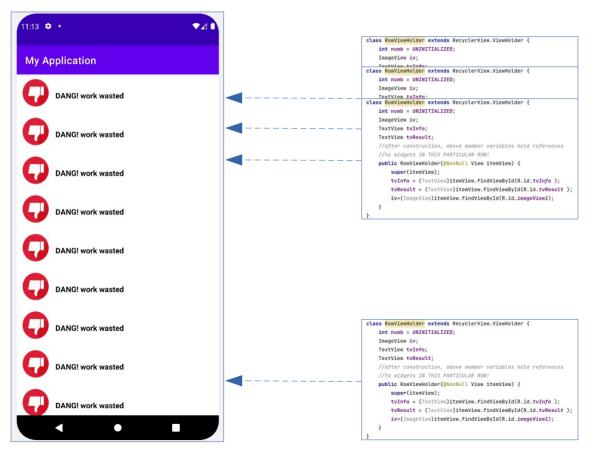
Save the original
    Number we are
    multiplyng
```



```
//passing in an existing instance, reuse the internal resources
      //pass our data to our ViewHolder
      RowVjewHolder viewHolder = (RowVjewHolder) holder;
      viewHolder.numb= holder.getAdapterPosition();
      //initialize the UI
      viewHolder.iv.setImageResource(R.drawable.unknown);
      viewHolder.tvInfo.setText("Hold on a sec...");
      viewHolder.tvResult.setText("");
      GetNumber myTask = new GetNumber(viewHolder,(MainActivity) ctx);
      myTask_start();
public GetNumber(RowyjewHolder myVh, MainActivity act) { Thread constructor
   //hold on to a reference to this viewholder
   //note that its contents (specifically iv) may change
   //iff the viewholder is recycled
   this.myVh = myVh;
   //make a copy to compare later, once we have the image
                                                                         Save the original
   this.original number = myVh.numb;
                                                                         Number we are
                                                                         multiplyng
   //hold on to the activity
   this.act=act;
public void run() {
                                                                      Thread run
  super.run():
  //just sleep for a bit to simulate long running downloaded
  //but could just as easily make a network call
  try {
    Thread.sleep(2000); //sleep for 2 seconds
  } catch (InterruptedException e) {
    e.printStackTrace();
  (I/create result (does this need protection? Not as written)
  result=original number*original number;
  act.runOnUiThread(new Runnable() {
    public void run() {
                                                                             If these
      //got a result, if the following are NOT equal
                                                                             numbers are
      // then the view has been recycled and is being used by another
      // number DO NOT MODIFY
                                                                             the same, then
      if (myVh.numb == original number){
        //still valid
                                                                             the view has
        //set the result on the main thread
                                                                             NOT been
        myVh.iv.setImageResource(R.drawable.ok);
        myVh.tvInfo.setText(Integer.toString(myVh.numb) + " squared =");
                                                                             recycled
        myVh.tvResult.setText(Integer.toString(result));
       else{
        myVh.iv.setImageResource(R.drawable.notneeded);
        myVh.tvInfo.setText("DANG! work wasted");
        myVb.tvResult.setText("");
```

});

public void onBindViewHolder(@MonNull RecyclerView.ViewHolder holder, int position)



```
public void onBindViewHolder(@OnNul) BecyclerView ViewHolder holder, int position) {
    //passing in an existing instance, reuse the internal resources
    //pass our data to our ViewHolder;
    RowViewHolder viewHolder = (RowViewHolder) holder;
    viewHolder.viewHolder = (RowViewHolder) holder;
    viewHolder.mumb = bolder.getAdapterOsition();

    //initialize the U/
    viewHolder.iv.setImageResource(R.drawable.unknown);
    viewHolder.tv.fo.setText("Hold on a sec...");
    viewHol
```

```
//hold on to a reference to this viewholder
   //note that its contents (specifically iv) may change
   //iff the viewholder is recycled
   this.myVh = myVh;
   //make a copy to compare later, once we have the image
                                                                         Save the original
   this.original number = myVh.numb;
                                                                         Number we are
                                                                         multiplyng
   //hold on to the activity
   this.act=act;
public void run() {
                                                                      Thread run
  super.run():
  //just sleep for a bit to simulate long running downloaded
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  try {
    Thread.sleep(2000); //sleep for 2 seconds
  } catch (InterruptedException e) {
    e.printStackTrace();
  (I/create result (does this need protection? Not as written)
  result=original number*original number;
  act.runOnUiThread(new Runnable() {
    public void run() {
      //got a result, if the following are NOT equal
      // then the view has been recycled and is being used by another
      // number DO NOT MODIFY
      if (myVh.numb == original number){
        //still valid
        //set the result on the main thread
        myVh.iv.setImageResource(R.drawable.ok);
                                                                             If these
        myVh.tvInfo.setText(Integer.toString(myVh.numb) + " squared =");
        myVh.tvResult.setText(Integer.toString(result));
                                                                             numbers are
                                                                             NOT the
      else{
        myVh.iv.setImageResource(R.drawable.notneeded);
                                                                             same, then the
        myVh.tvInfo.setText("DANG! work wasted");
        myVb.tvResult.setText("");
                                                                             view has been
                                                                             recycled
 });
```

public GetNumber(RowyjewHolder myVh, MainActivity act) { Thread constructor