



RecyclerView and Performance



```
class MyAdapter : RecyclerView.Adapter<MyAdapter.ViewHolder>() {  
  
    private val myList = mutableListOf<GuineaPig>()  
  
    fun remove(position: Int) {  
        myList.removeAt(position)  
        notifyDataSetChanged()   
    }  
  
    fun update(guineaPigName: String, position: Int) {  
        myList[position].name = guineaPigName  
        notifyDataSetChanged()   
    }  
  
    fun updateAll(guineaPigs : List) {  
        myList.clear()  
        myList.addAll(guineaPigs)  
        notifyDataSetChanged()  
    }  
}
```



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```
class MyAdapter : RecyclerView.Adapter<MyAdapter.ViewHolder>() {  
  
    private val myList = mutableListOf<GuineaPig>()  
  
    fun remove(position: Int) {  
        myList.removeAt(position)  
        notifyItemRemoved(position) ←  
    }  
  
    fun update(guineaPigName: String, position: Int) {  
        myList[position].name = guineaPigName  
        notifyItemChanged(position) ←  
    }  
  
    fun updateAll(guineaPigs : List) {  
        myList.clear()  
        myList.addAll(guineaPigs)  
        notifyDataSetChanged()  
    }  
}
```



RecyclerView and Performance



```
class MyAdapter : ListAdapter<GuineaPig, GuineaPigViewHolder>(DiffCallback()) {  
  
    private var myList: List<GuineaPig> = emptyList()  
        set(value) {  
            field = value  
            submitList(field)  
        }  
  
    fun refresh(guineaPigs: List) {  
        myList = guineaPigs  
    }  
  
    private class DiffCallback : DiffUtil.ItemCallback<GuineaPig>() {  
        override fun areItemsTheSame(  
            oldItem: GuineaPig,  
            newItem: GuineaPig  
        ): Boolean {  
            return oldItem.id == newItem.id  
        }  
  
        override fun areContentsTheSame(oldItem: GuineaPig, newItem: GuineaPig): Boolean {  
            return oldItem.id == newItem.id  
                && oldItem.name == newItem.name  
        }  
    }  
}
```

