```java
ArrayAdapter adapter;   5 us

adapter = new ArrayAdapter( context: MainActivity.this, android.R.layout.simple_list_item_1, arrayMonhoc);

ArrayList<String> arrayMonhoc;   17

arrayMonhoc.add("Android");
arrayMonhoc.add("Java");
arrayMonhoc.add("PHP");
arrayMonhoc.add("Hadoop");
arrayMonhoc.add("Sap");
arrayMonhoc.add("Python");
arrayMonhoc.add("Ajax");
arrayMonhoc.add("C++");
arrayMonhoc.add("Ruby");
arrayMonhoc.add("Rails");

ListView lsView;   4

lsView = findViewById(R.id.lsView);

lsView.setAdapter(adapter);
```

```xml
<EditText
    android:layout_width="match_parent"
    android:layout_height="50dp"
    android:ems="10"
    android:imeOptions="actionNext"
    android:inputType="text"
    />

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="200dp"
    android:layout_weight="1"
    android:orientation="horizontal">
    <Button
        android:id="@+id/btnThem"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:layout_marginRight="50dp"
        android:text="Thêm" />

    <Button
        android:id="@+id/btnCapnhat"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Cập nhật" />
</LinearLayout>
```

```java
lsView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
        editText.setText(arrayMonhoc.get(i));
        pos = i;
    }
});

lsView.setOnItemLongClickListener(new AdapterView.OnItemLongClickListener() {
    @Override  no usages
    public boolean onItemLongClick(AdapterView<?> adapterView, View view, int i, long l) {

        Toast.makeText( context: MainActivity.this, arrayMonhoc.get(i) ,Toast.LENGTH_LONG).show();
        arrayMonhoc.remove(i);
        adapter.notifyDataSetChanged();
        return false;
    }
});
```

```java
btnThem.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        arrayMonhoc.add(editText.getText().toString());
        adapter.notifyDataSetChanged();
        editText.setText("");
    }
});
```

```java
btnCapnhat.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        if(pos != -1) {
            arrayMonhoc.set(pos,editText.getText().toString());
            adapter.notifyDataSetChanged();
        }
        pos =-1;
        editText.setText("");
    }
});
```

```java
public View getView(int position, View convertView, ViewGroup viewGroup) {
    LayoutInflater inflater = (LayoutInflater) context.getSystemService(Context.LAYOUT_INFLATER_SERVICE);
    convertView = inflater.inflate( layout, root: null);
    TextView txtTen = convertView.findViewById(R.id.txtTen);
    TextView txtlin= convertView.findViewById(R.id.txtlink);
    ImageView imgHinh = convertView.findViewById(R.id.imgHinh);
    City city = cityList.get(position);
    txtTen.setText(city.getNameCity());
    txtlin.setText(city.getLinkWiki());
    imgHinh.setImageResource(city.getHinh());
    return convertView;
}
```

```java
gridView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
        HinhAnh hinhAnh = arrayHinhAnh.get(i);
        Intent intent = new Intent( packageContext: MainActivity.this, PictureActivity.class);
        Bundle bundle = new Bundle();
        bundle.putSerializable("ha",hinhAnh);
        intent.putExtra( name: "data", bundle);
        startActivity(intent);
    }
});
```

```java
public class HinhAnh implements Serializable {   19 usages
```

```java
Intent intent = getIntent();
Bundle bundle = intent.getBundleExtra( name: "data");
HinhAnh hinhAnh = (HinhAnh)bundle.getSerializable( key: "ha");
imageView.setImageResource(hinhAnh.getHinh());
```