Pays

```java
package com.pays;

//imports

public class MainActivity extends Activity {
  private EditText edPays;
  private Button btnAjouter;
  private Button btnVider;
  private ListView lstPays;
  private ArrayAdapter<String> adpPays;

  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    initGraphique();
  }
  private void initGraphique () {
    edPays      = findViewById(R.id.edPays);
    btnAjouter  = findViewById(R.id.btnAjouter);
    btnVider    = findViewById(R.id.btnVider);
    lstPays     = findViewById(R.id.lstPays);
    adpPays = new ArrayAdapter<String>(this, android.R.layout.simple_list_item_1);
    lstPays.setAdapter(adpPays);
    ajouterEcouteur();
  }
  private void ajouterEcouteur() {
    btnAjouter.setOnClickListener(view ->  ajouter());
    btnVider.setOnClickListener(view ->  vider());
    lstPays.setOnItemClickListener(arg0, arg1, position, arg3 ->  afficher(position));
  }

  private void ajouter() {
    String pays = edPays.getText().toString();
    if(!pays.isBlank()){
        adpPays.add(pays);
        edPays.setText("");
    }
  }
}
```

```java
protected void afficher(int indice) {
    String pays = adpPays.getItem(indice);
    Toast.makeText(getApplicationContext(), pays, Toast.LENGTH_LONG).show();

}
protected void vider() {
        //Création d'un Builder
         AlertDialog.Builder b = new AlertDialog.Builder(AlertDialogActivity.this);
        //Changer titre
        b.setTitle("Vider?");
        //Changer message
                b.setMessage("Etes vous sûr de vider la liste?");
        //Changer icône
        b.setIcon(R.drawable.vider);
        //Bouton positif
                b.setPositiveButton("Oui", new DialogInterface.OnClickListener() {
                    public void onClick(DialogInterface dialog, int which) {
                    adpPays.clear();
                    }
                });
        //Bouton négatif
                b.setNegativeButton("Non", new DialogInterface.OnClickListener() {
                    public void onClick(DialogInterface dialog, int which) {
                    }
                });
        //Creation et affichage de l'AlertDialog
        AlertDialog alertDialog = b.create();
        alertDialog.show();


}

}
```

Animaux

```java
package com.animaux;

public class Animal {
  private String nom;
  private int idImage;
  private String poids;

  public Animal(String nom, int idImage, String poids) {
    this.nom = nom;
    this.idImage = idImage;
    this.poids = poids;
  }

  public String getNom() {
    return nom;
  }

  public int getIdImage() {
    return idImage;
  }

  public String getPoids() {
    return poids;
  }

}

package com.animaux;
//imports
public class MainActivity extends Activity {
  private TextView tvNom;
  private ImageView imgAnimal;
  private TextView tvPoids;
  private ImageButton btnPrecedent;
  private ImageButton btnSuivant;
  private int indice;
  private Animal[] tAnimal = new Animal[] { new Animal("Eléphant", R.drawable.elephant, "5-7
tonnes"),
      new Animal("Lion", R.drawable.lion, "375 kg"), new Animal("Panda", R.drawable.panda, "160
kg"),
      new Animal("Renard", R.drawable.renard, "6 kg"), new Animal("Toucan", R.drawable.toucan,
"540 à 860 g") };

  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    initGraphique();
  }
```

```java
private void initGraphique () {
  tvNom        = findViewById(R.id.tvNom);
  imgAnimal    = findViewById(R.id.imgAnimal);
  tvPoids      = findViewById(R.id.tvPoids);
  btnPrecedent = findViewById(R.id.btnPrecedent);
  btnSuivant   = findViewById(R.id.btnSuivant);
  indice = 0;
  actualiser();
  ajouterEcouteurs();

}

private void ajouterEcouteurs() {
  btnPrecedent.setOnClickListener(view ->    precedent());
  btnSuivant.setOnClickListener(view ->   suivant());

}

protected void precedent() {
  if (indice > 0)
    indice--;
  else
    indice = tAnimal.length - 1;
  actualiser();
}

protected void suivant() {
  indice = (indice + 1) % tAnimal.length;
  actualiser();

}

private void actualiser() {
  tvNom.setText(tAnimal[indice].getNom());
  imgAnimal.setImageResource(tAnimal[indice].getIdImage());
  tvPoids.setText(tAnimal[indice].getPoids());
}

}
```