

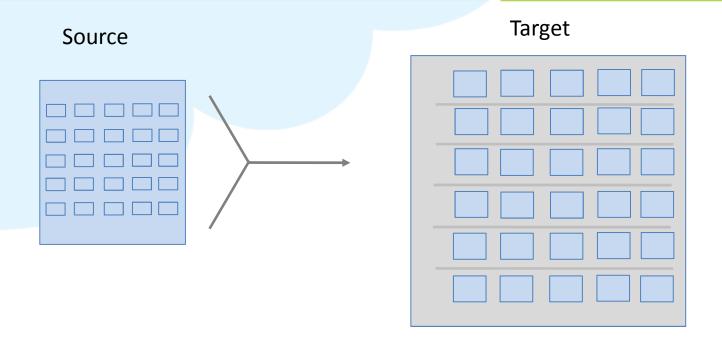
Your business problems have changed. Why hasn't your integration solution?



Mapping Scenarios



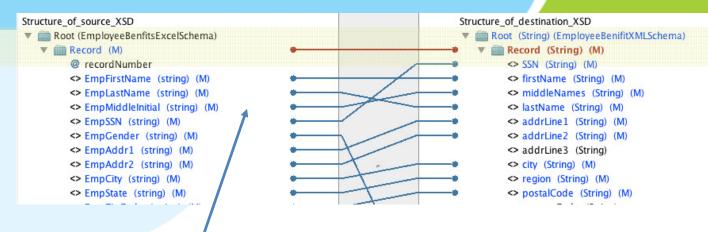
Example 1: Mapping scenario – Applying 'For Each' condition



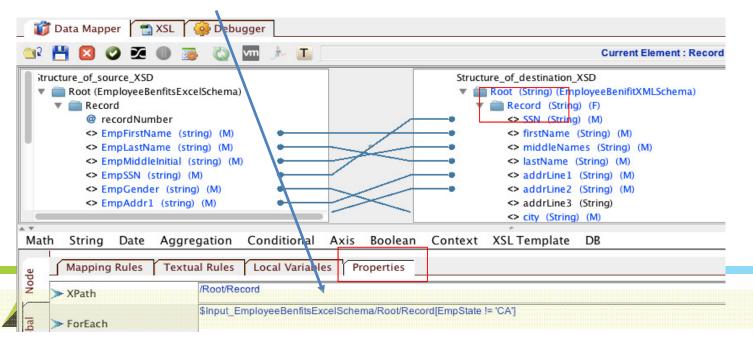
Example: Map source records into target. Apply 'For Each' condition to pull all the records from the source and map to target fields.

Refer to Mapper Help on how to apply mapping functions such as Constants, String, Math, Conditional, Aggregation, Date, Variables etc.

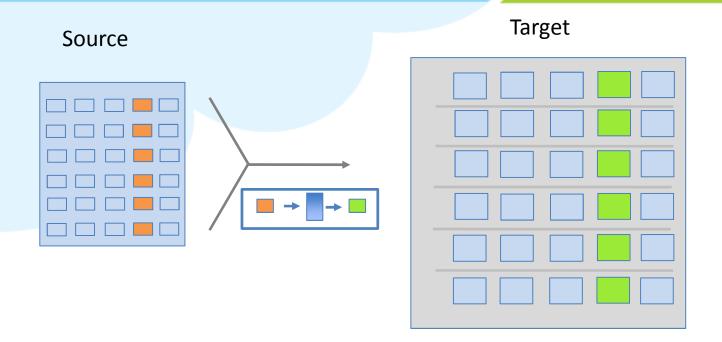
Example 1: Mapping scenario – Applying 'For Each' condition



By connecting Source 'Record' node to the Target 'Record' node applies a ForEach condition that would pick all the record from the Source and map to the Target schema. If this ForEach condition is not applied then only one record would be picked from the Source. If we need to apply a filter condition on the ForEach such as 'Select records where State is not equal to CA' then use the following approach. First select the Target Record node then go to its Properties and put your cursor in the ForEach field. On the ForEach field in the Properties panel double click on the Source Record node and then add a predicate with the logic as shown below. Refer to Mapper Help for more information.

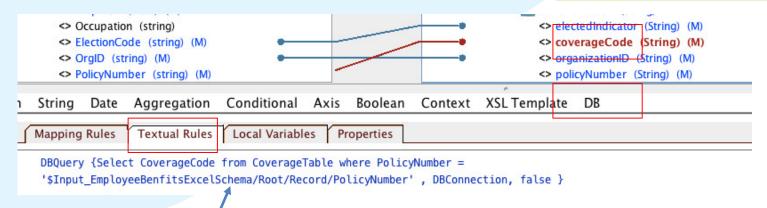


Example 2: Mapping scenario – Applying 'Lookup' condition



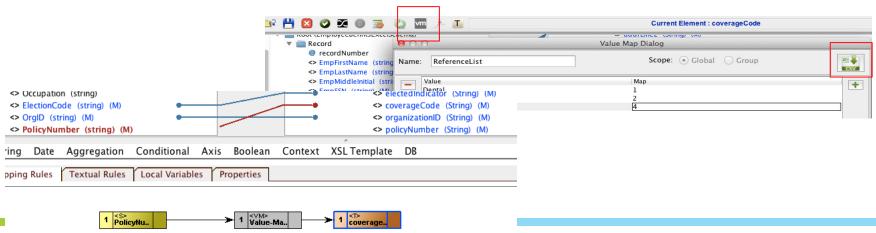
Example: Apply a lookup on a database reference table or a Value Map based on a source field value and map the result into a target field.

Example 2: Mapping scenario – Applying 'Lookup' condition



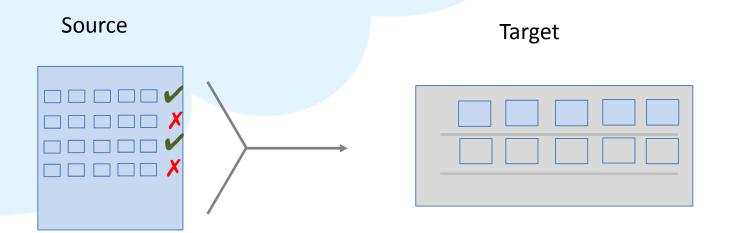
Select the target field and then go to Textual Rules and select DB. It will show a function that takes three parameters. In the first parameter write the SQL query and put the Source field that is going to be used for the lookup in the Where clause. Use single quote if the source field is of type text. The second parameter uses the DB variable name (refer to Help on how to create the DB connection variable). The third parameter is either True or False. True means that more than one records in the result set, False means only one record in the result set. The return response from the query will be mapped to the target field.

If the reference data is not in a Database but in a CSV file or if you want to create a new Reference list within Mapping then use the Value Map (VM) Function as shown below. Refer to Mapper Help on how to use Value Map.



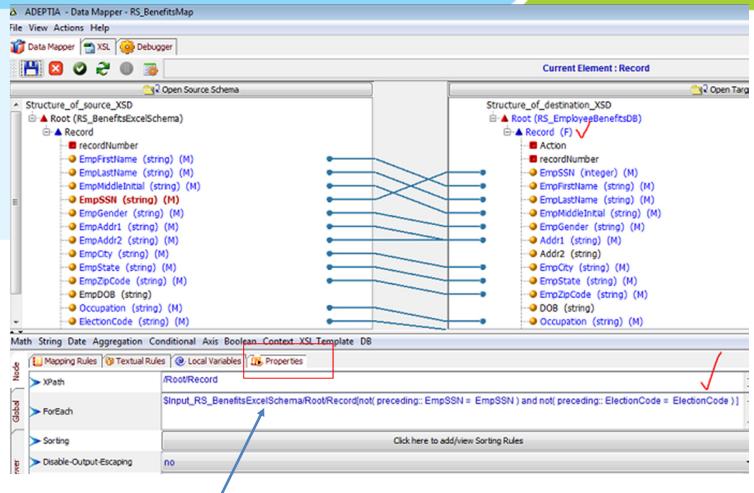


Example 3: Mapping scenario – Applying 'Duplicate handling' condition



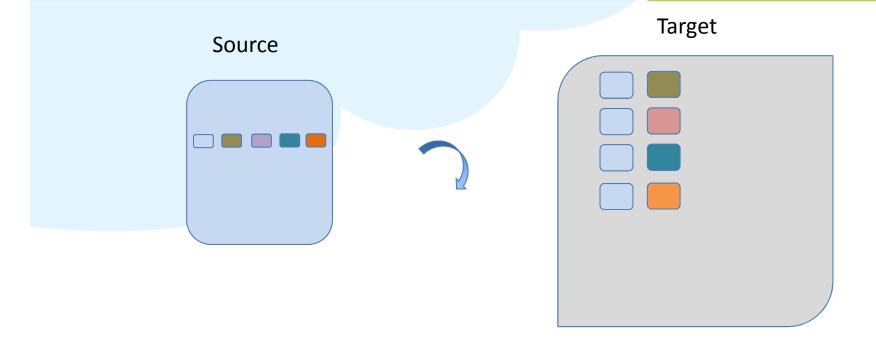
Example: Map source records into target. Apply 'For Each' and duplicate handling condition to pull only unique records from source and map to target.

Example 3: Mapping scenario – Applying 'Duplicate handling' condition



Select the Target Record node and go to its Properties and put the cursor in the ForEach field. Now double click on the Source Record node and Then apply the 'preceding' Axis function. Here the example shown above is to pick only those records whose SSN and ElectionCode do not match with any preceding records from the Source. If the condition is met then record will be sent to Target else it will be considered a duplicate and will be filtered out.





Example: Pivot single source record to multiple target records. Repeat the same rule for remaining source records.

A car brand that maintains its product listing as:

```
Article Model1 Model2 Model3 Model4 Model5

Car Brio Civic Pilot CRV Jaaz

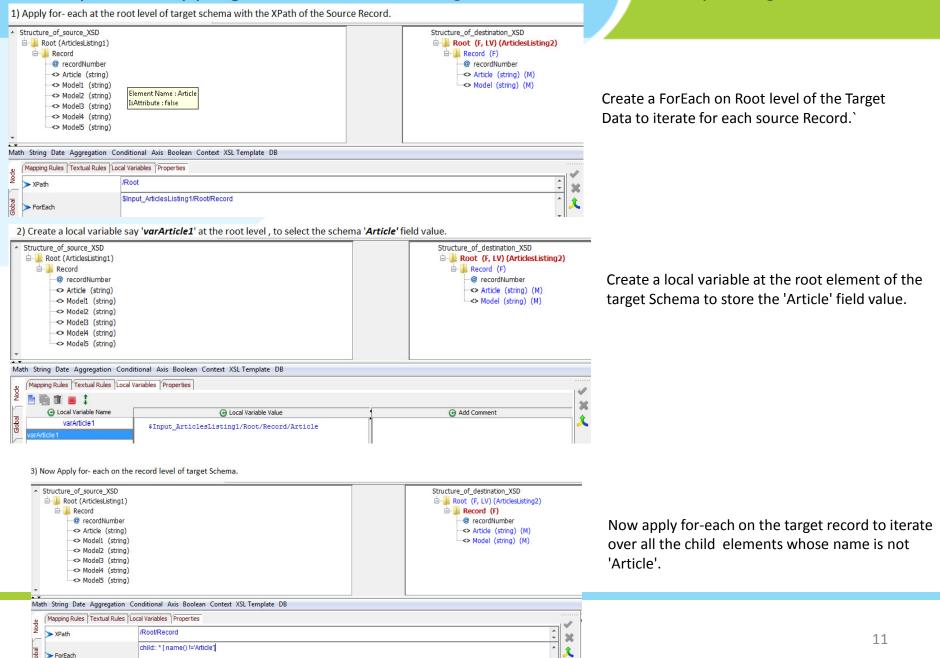
Bike CBR250R RoadMaster Helix Super Hawk Scrambler
```

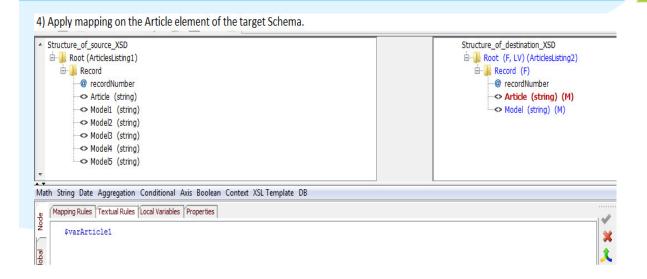
The ouput required should be as:

```
Article Model
         Brio
  Car
3 Car
         Civic
        Pilot
  Car
  Car
         CRV
  Car
         Jaaz
  Bike CBR250R
  Bike RoadMaster
9 Bike Helix
0 Bike Super Hawk
         Scrambler
  Bike
```

The above mentioned scenario can be achieved by pivoting single source record to multiple target records in Data Mapper as shown below.







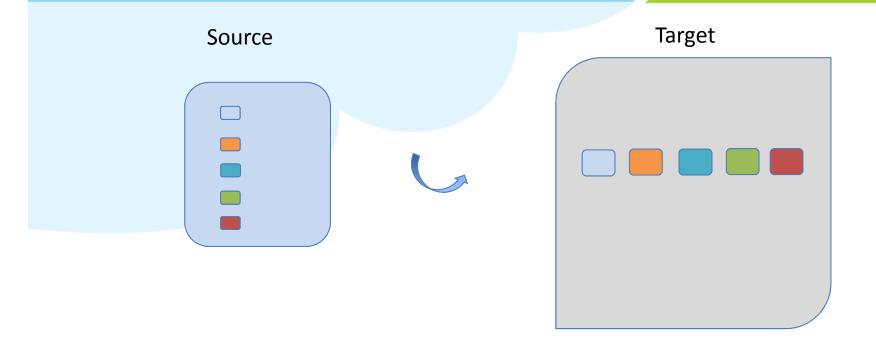
Use the local variable created at the root level of the target schema to map the 'Article' element of target schema.

5) Apply Mapping on Model element of the target schema.



Map the Model element value of the target Schema by applying a "." in textual rule. This will pick values from Model one by one.

Example 5: Mapping scenario – Pivot multiple source records into a single target record.



Example: Pivot multiple source records into a single target record. Repeat the same rule for remaining source records that repeat after 5 rows. In other words one target record comprises of 5 source records block.

Example 5: Mapping scenario – Pivot multiple source records into a single target record.

A car brand that maintains its product listing as:

```
Article Model
        Brio
Car
        Civic
Car
        Pilot
Car
        CRV
Car
        Jaaz
Car
Bike
        CBR250R
Bike
        RoadMaster
Bike
        Helix
        Super Hawk
Bike
        Scrambler
Bike
```

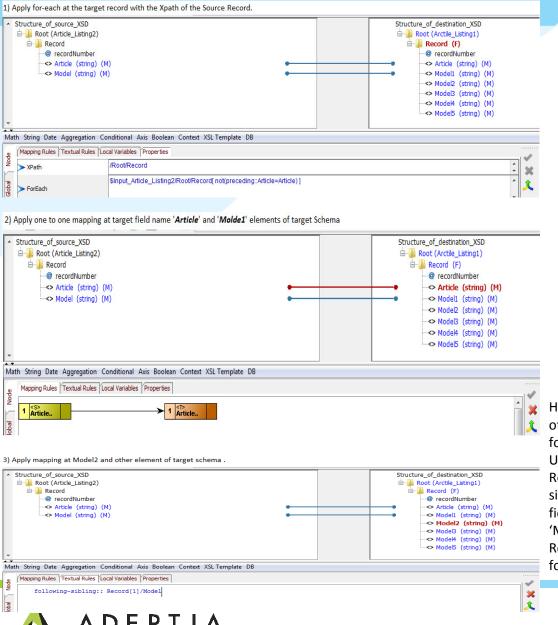
The ouput required should be as:

```
Article Model1 Model2 Model3 Model4 Model5
Car Brio Civic Pilot CRV Jaaz
Bike CBR250R RoadMaster Helix Super Hawk Scrambler
```

The above mentioned scenario can be achieved by pivoting multiple source record to single target record in Data Mapper as shown below.



Example 5: Mapping scenario – Pivot multiple source records into a single target record.



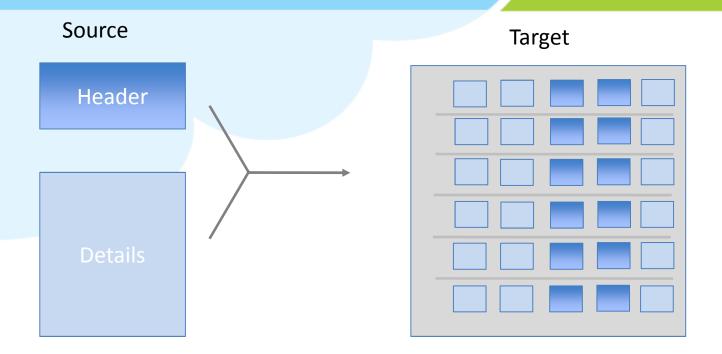
Apply 'For Each' and duplicate handling condition to pull only unique (Article)records from source and map to target.

Apply one to one Mapping for Article and Model1 field of target Schema.

Here we are applying mapping for field name'Model2' of target Schema to fetch value of the Model field following the first source Record.

Use the following-sibling function to fetch records following Record 1 and map to 'Model2' .Similarly use following sibling to fetch records following Record 2 and map to target field 'Model3'. Thus similarly map target field 'Model4' and 'Model5' to fetch the Records following Record 3 and Record4 correspondingly using the following – sibling function.

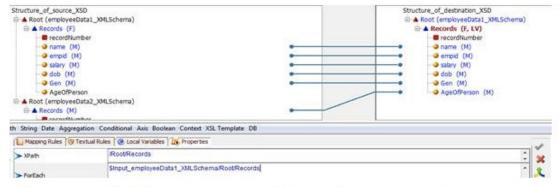
Example 6: Mapping scenario – Merging two sources by common key



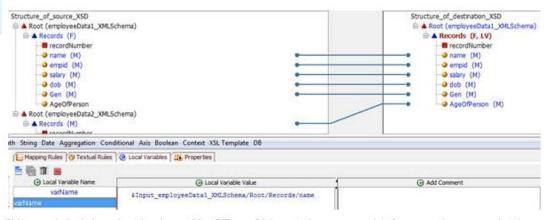
Example: Two sources (header & details) merged by a common key into a target. The number of records in target equal the number of records in details. Each target record contains values from header record based on a Join condition using a common key available in the two sources.

Example 6: Mapping scenario – Merging two sources by common key

1) Apply for-each at the target record with the xPath of the first schema.



2) Create a local variable say "varName" at the record level, to select first schema "name" field value.



Source Data1 contains the details.

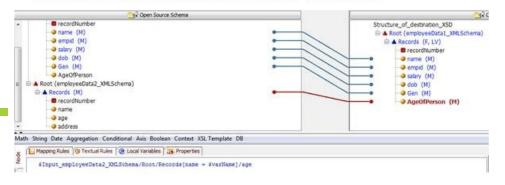
Source Data2 contains the headers.

Create a ForEach on the Source Data 1. Idea is that that Target record will iterate on each Detail record and the field in the target schema that needs a value from the Header will be obtained by a lookup.

Create a local variable in the Target Record node and assign the value from field Name. Here Name is a **common field** in the two sources.

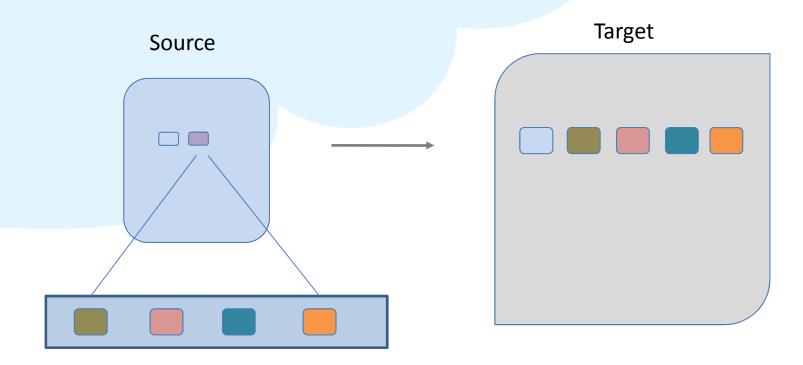
3) Now apply the below rule at the element "AgeOfPerson" (element where common data from second source needs to be mapped)

\$Input employeeData2 XMLSchema/Root/Records[name = \$varName]/age.

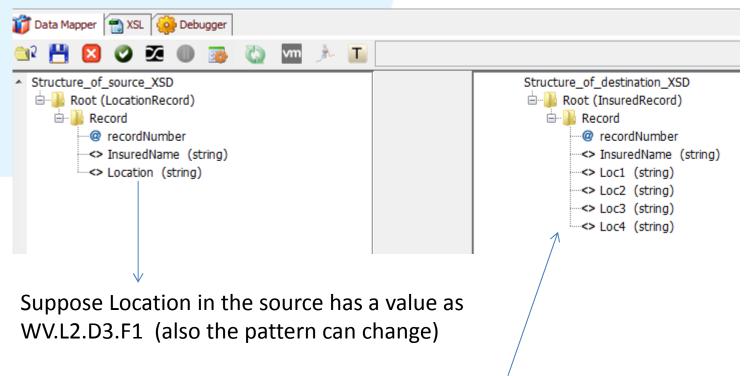


Here we are looking for Age in Source Data 2 based on Name which is coming from the variable defined above. Use a Predicate function here.

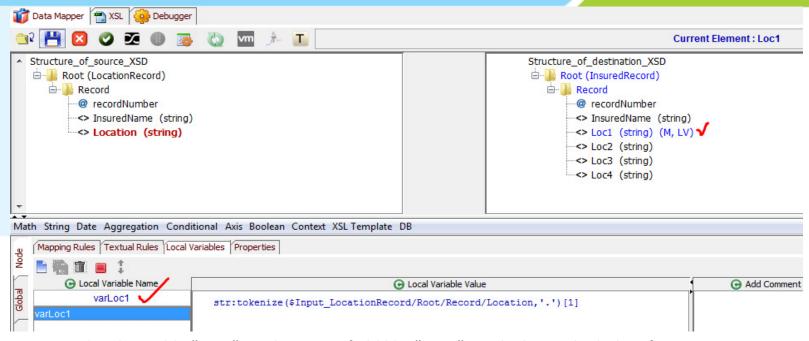
Example 7: Mapping scenario — Use Tokenize function to split a source field value into multiple parts and map each of those parts to different fields in the target



Example: Use Tokenize function to split a source value into multiple target fields and repeat the same rule on all the source records.



Each of the values separated by (.) need to be mapped to its related Target field. Thus Loc1 is WV, Loc2 is L2, Loc3 is D3, Loc4 is F1



Create a local variable "var1" on the target field like "Loc1" in which use the below function: str:tokenize(\$Input_SourceSchema/Root/Record/Location,'.')[1]

Map this local variable "var1" to the target field "Loc1" using the graphical or textual rule.

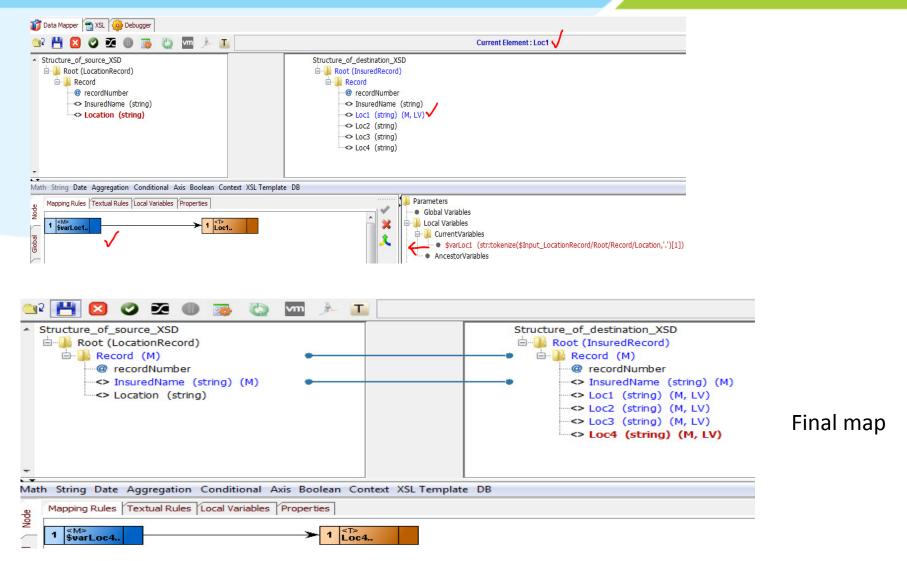
Similarly create another local variable "var2" on the second target field like "Loc2" in which use the below function:

str:tokenize(\$Input SourceSchema/Root/Record/Location,'.')[2]

Map this local variable "var2" to the target field "Loc2" using the graphical or textual rule.

Follow the above steps for the rest of the Target Loc fields.







Result







Thank You!

