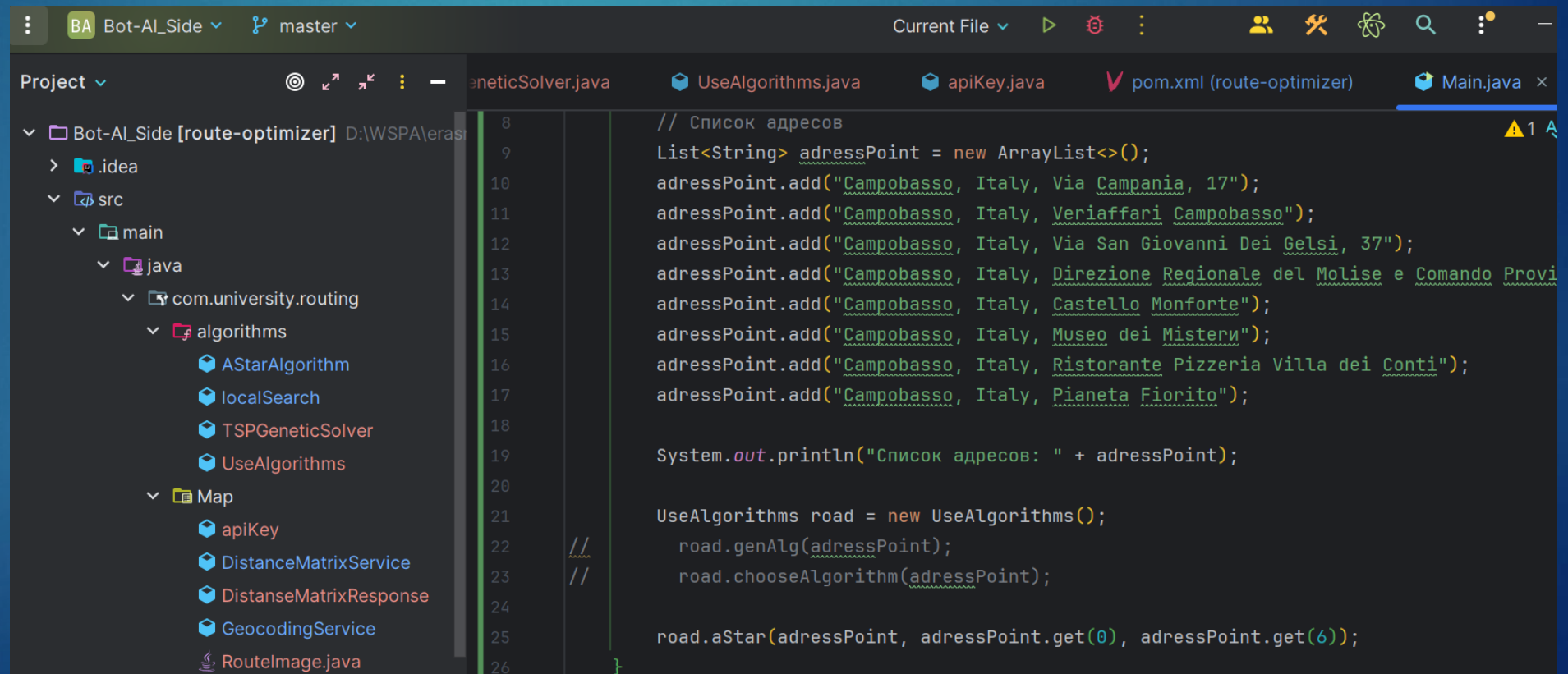


## Algorithm side

At the moment, this project performs two functions :

- 1) finding the best road through all the points and returning to the starting point.
- 2) You can select two points from the list and get the best path between them.

To implement the second function, we used algorithm A\*



The screenshot shows an IDE with a project named 'Bot-AI\_Side' and a file named 'Main.java'. The code in 'Main.java' implements the A\* algorithm. It starts by creating a list of addresses, then uses the 'UseAlgorithms' class to find the best path between two points. The code is as follows:

```
8 // Список адресов
9 List<String> adressPoint = new ArrayList<>();
10 adressPoint.add("Campobasso, Italy, Via Campania, 17");
11 adressPoint.add("Campobasso, Italy, Veriaffari Campobasso");
12 adressPoint.add("Campobasso, Italy, Via San Giovanni Dei Gelsi, 37");
13 adressPoint.add("Campobasso, Italy, Direzione Regionale del Molise e Comando Provi
14 adressPoint.add("Campobasso, Italy, Castello Monforte");
15 adressPoint.add("Campobasso, Italy, Museo dei Misteri");
16 adressPoint.add("Campobasso, Italy, Ristorante Pizzeria Villa dei Conti");
17 adressPoint.add("Campobasso, Italy, Pianeta Fiorito");
18
19 System.out.println("Список адресов: " + adressPoint);
20
21 UseAlgorithms road = new UseAlgorithms();
22 // road.genAlg(adressPoint);
23 // road.chooseAlgorithm(adressPoint);
24
25 road.aStar(adressPoint, adressPoint.get(0), adressPoint.get(6));
26 }
```