## Naming and format requirements

### Library and class

|  | **C#** | **Java** | **1C** | **Python** |
| --- | --- | --- | --- | --- |
| **Library** | BlackLineLogisticLib{NN}.dll | BlackLineLogisticLib{NN}.jar | BlackLineLogisticLib{NN}.epf  or BlackLineLogisticLib{NN}.cf | BlackLineLogisticLib{NN} |
| Where NN - number of your workstation (like 01, 05, 11, 56)  For example, Competitor #9 should name the library as “BlackLineLogisticLib09.dll” or “BlackLineLogisticLib09.jar”, etc. | | | |
| **Class (public static)** | LogisticCalculations | LogisticCalculations | LogisticCalculations | LogisticCalculations |

### Method to calculate the distance between two coordinate points.

|  | **C#** | **Java** | **1C** | **Python** |
| --- | --- | --- | --- | --- |
| **Method name** | GetDistance() | getDistance() | GetDistance() | get\_distance() |
| **Input parameters** | double lat1,  double lng1,  double lat2,  double lng2 | double lat1,  double lng1,  double lat2,  double lng2 | Number lat1,  Number lng1,  Number lat2,  Number lng2 | float lat1,  float lng1,  float lat2,  float lng2 |
| **Return value** | int | int | Number | int |

### Method to get free parking spaces in a given period of time on a certain day.

|  | **C#** | **Java** | **1C** | **Python** |
| --- | --- | --- | --- | --- |
| **Method name** | AvailableParkingSpaces() | availableParkingSpaces() | AvailableParkingSpaces() | available\_parking\_spaces() |
| **Input parameters** | int columns,  int rows,  string[] busyParkingSpaces,  TimeSpan[] startTimes,  TimeSpan[] endTimes,  TimeSpan newParkingTime,  int newParkingDuration | int columns,  int rows,  String[] busyParkingSpaces,  LocalTime[] startTimes,  LocalTime[] endTimes,  LocalTime newParkingTime,  int newParkingDuration | Number columns,  Number rows,  String[] busyParkingSpaces,  Date[] startTimes,  Date[] endTimes,  Date newParkingTime,  Number newParkingDuration | int columns,  int rows,  string[] busy\_parking\_spaces,  datetime.time[] start\_times,  datetime.time[] end\_times,  datetime.time new\_parking\_time,  int new\_parking\_duration |
| **Return value** | string[] | String[] | String[] | string[] |