|  |
| --- |
| City |
| consumers : ArrayList<Consumers>  producers : : ArrayList<Producers> |
| +City()  +double PowerConsumers(double sunshine, int time, double temp)  +double PowerProducers(double sunshine, double windSpeed) |

|  |
| --- |
| Consumers |
|  |
| ~float PowerConsumed(double sunshine, int time, double temp) |

|  |
| --- |
| ModerateHousing |
|  |
| +float PowerConsumed(double sunshine, int time, double temp) |

|  |
| --- |
| PoorHousing |
|  |
| +float PowerConsumed(double sunshine, int time, double temp) |

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| --- |
| RichHousing |
|  |
| +float PowerConsumed(double sunshine, int time, double temp) |

|  |
| --- |
| Supermarket |
|  |
| +float PowerConsumed(double sunshine, int time, double temp) |

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| --- |
| SmallShops |
|  |
| +float PowerConsumed(double sunshine, int time, double temp) |

|  |
| --- |
| BigFactories |
|  |
| +float PowerConsumed(double sunshine, int time, double temp) |

|  |
| --- |
| SmallFactories |
|  |
| +float PowerConsumed(double sunshine, int time, double temp) |

|  |
| --- |
| NuclearPowerplants |
|  |
| +double PowerProduced(double sunshine, double windSpeed) |

|  |
| --- |
| SolarPanels |
|  |
| +double PowerProduced(double sunshine, double windSpeed) |

|  |
| --- |
| Producers |
|  |
| ~double PowerProduced(double sunshine, double windSpeed) |

|  |
| --- |
| WindTurbines |
|  |
| +double PowerProduced(double sunshine, double windSpeed) |

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| --- |
| HydroeletricPowerplants |
|  |
| +double PowerProduced(double sunshine, double windSpeed) |

|  |
| --- |
| CoalPowerplants |
|  |
| +double PowerProduced(double sunshine, double windSpeed) |

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| --- |
| Simulation |
| scenario : double  Day :int  averageSpeed : int  Tmin : double  Tmax : double  RainyDays : double  PowerProducedSinceBeginning : double  PowerConsumedSinceBeginning : double |

package : app

package : parameters

|  |
| --- |
| Parameters |
|  |
| +double InstantTemperature(int time, double Tmin, double Tmax)  +double Sunshine(int time,double RainyDays)  +double WindSpeed(int averageSpeed) |

package : consume

package : product