

```
struct factoryPayment {
int sum;
int monthsLeft;
};
```

```
struct moneyLoan {
int sum;
int monthsLeft;
};
```

```
struct playerInfo {
int commonFactories;
int autoFactories;
int balance;
int raw;
int production;
};
```

```
struct playerProperty {
int commonFactories;
int autoFactories;
int balance;
int raw;
int production;
vector<factoryPayment> factoryLoans;
vector<moneyLoan> moneyLoans;
};
```

```
typedef vector<playerInfo> infoTable;
```

```
class Bank {
vector<playerProperty> properties;
vector<infoTable> infoTables;
...
bid makeBids();
...
};
```

```
struct happyCaseMove {
int rawGift;
int prodGift;
int moneyGift;
};
```

```
struct request {
int count;
int cost
};
```

```
struct bid {
request rawSellBid;
request prodBuyBid;
happyCaseOccasion case;
```

```
struct happyCaseOccasion {
int index;
int target;
};
```

```
struct playerMove {
request rawBuyRequest;
request prodSellRequest;

int factoriesToAuto;
int buyFactories;
int toProductionCommon;
int toProductionAuto;
int loan;

happyCaseMove gift;
};
```

```
class playerAlgorithm {
virtual playerMove getMove(playerPropetry, vector<infoTable>, bid) = 0;

virtual string getCode() = 0;
};
```

```
class myAlgorithm: playerAlgorithm {
playerMove getMove(playerProperty, vector<infoTable>, bid) override {...}

string getCode() override {...}
};
```

```
class Interface {
...
};
```

```
struct playerEntity {
enum playerType {comp, human} type;
playerAlgorithm* algorithm;
};
```

```
class playerManager {
vector<playerEntity> players;
...
};
```