Object Calisthenics

One level indentation per method

```
class World {
          public initializeMap(): number[][] {
              const map: number[][] = [];
             for (let i = 0; i < 10; i++) {
                  map[i] = [];
                  for (let j = 0; j < 10; j++) {
                      map[i][j] = 0;
 8
10
11
              return map;
12
13
14
```

```
class World {
          public initializeMap(): number[][] {
              const map: number[][] = [];
              this.createRows(map);
              return map;
          private createRows(map: number[][]): void {
              for (let i = 0; i < 10; i++) {
10
                  this.createRow(map, i);
11
12
13
14
          private createRow(map: number[][], row: number): void {
15
             map[row] = [];
16
              for (let i = 0; i < 10; i++) {
17
                  map[row][i] = 0;
18
19
20
```

- -No primitive
- -No else
- -Max 2 arguments per method

```
class Authentication {

  public login(name: string, surname: string, password: string): void {

    if (this.isValid(name, surname, password)) {

       this.redirect("homepage");
    }else{

      this.addFlash("invalid_credentials");
      this.redirect("login")
    }
}
```

```
type AuthParams = \{
    name: string,
    surname: string,
    password: string
class Authentication {
    public login(params: AuthParams): void {
        const authStatus = this.isValid({
            name: params.name,
            surname: params.surname,
            password: params.password
        }):
        if (authStatus) {
            return this.redirect(Page.Homepage);
        this.addFlash(CustomError.badCredentials);
        return this.redirect(Page.Login)
```

Type system for very very simple "wrapping" (instead of real classes)

```
1
     type ErrorCodes = 400 | 401 | 404
2
3
     type User = {
         name: string,
          surname: string,
         password: string,
         errorCode: ErrorCodes
8
     };
9
10
     type UsersList = Array<User> | undefined;
11
12
     const processUsers = (usersList: UsersList) => {
13
          const notFoundUsers = usersList?.filter(u => u.errorCode === 500)
```

Conclusions

These rules, if applied by everyone in the company:

- Drastically improve code readability
- Provide standardization
- Improve refactor capabilities

Thank you

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