



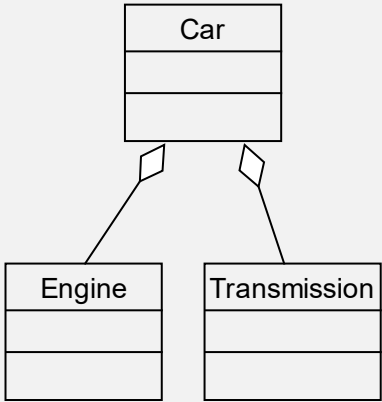
MULTIPLE ASSOCIATION

Association relationships between many peers

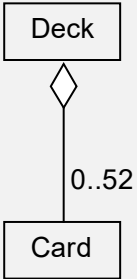


AGGREGATION OPTIONS

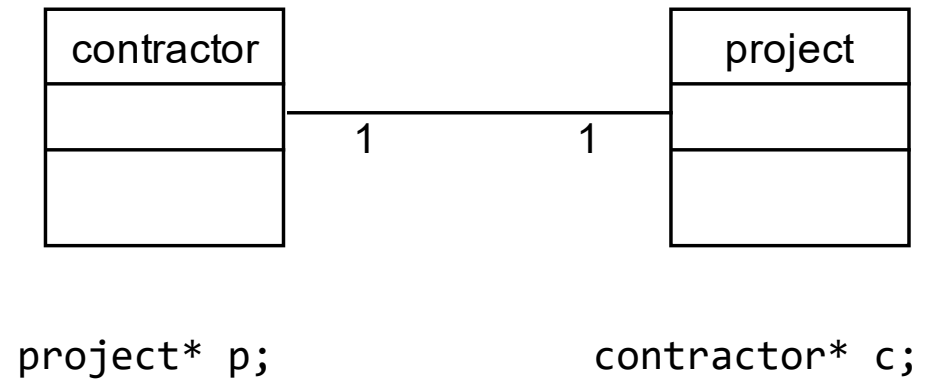
ONE PART PER CLASS



MULTIPLE PARTS PER CLASS

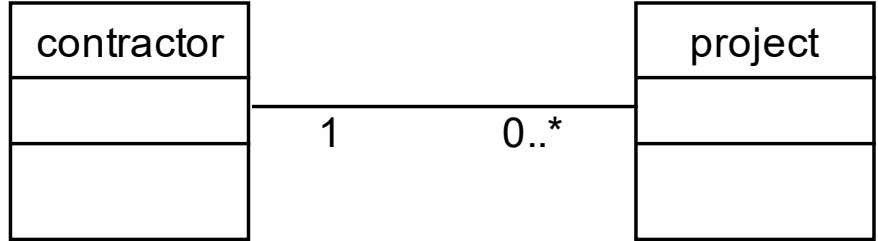


ONE-TO-ONE ASSOCIATION

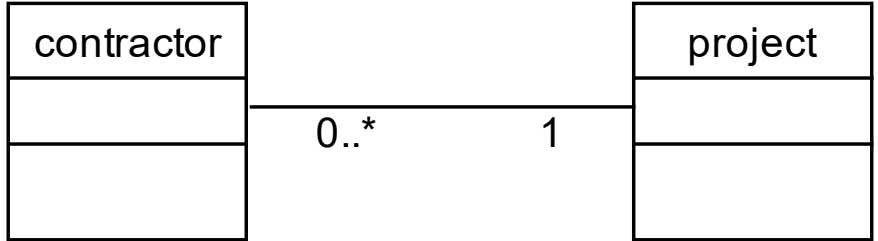




ONE-TO-MANY OR MANY-TO-ONE ASSOCIATION



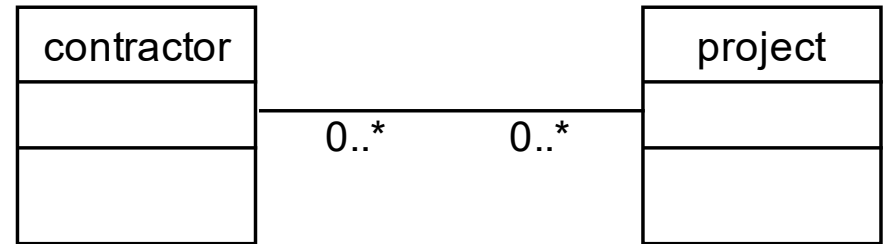
```
project* p[25];      contractor* c;
```



```
project* p;          contractor* c[100];
```



MANY-TO-MANY ASSOCIATION





contractor

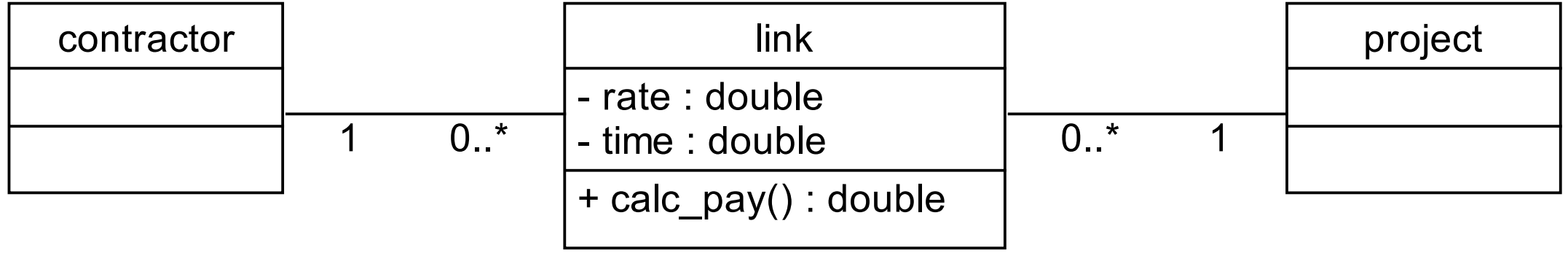
- hours : int
- rate : double

project

- hours : int
- rate : double

MEMBER LOCATION IN MANY-TO-MANY ASSOCIATION

- If contractors maintain the time worked, they must work the same amount of time for each project.
- If contractors maintain the pay rate, they must charge the same amount for each project.
- If projects maintain the time worked, then each contractor must work the same amount of time.
- If projects maintain the pay rate, they must pay each contractor at the same rate.
- Replace single variables with arrays or containers?



```
link* projects[25];
```

```
contractor* c;  
project* p;
```

```
link* contractors[100];
```

LINK CLASSES



MANY-TO-MANY
ASSOCIATION
WITH LINK
CLASSES

