

## Exercises for 06-Typecast

### type-cast

Throughout the following exercises it is assumed that we have the following types present in our language.

```
byte -128 through +127
int  -2 147 483 648 through +2 147 483 647
```

1. Will the following code work?

```
byte nrStudents
nrStudents = 123
```

2. Will the following code work?

```
byte nrStudents
nrStudents = 789
```

3. Will the following code work?

```
int nrStudents
nrStudents = 123
```

4. Will the following code work?

```
int nrStudents
nrStudents = 789
```

5. Will the following code work?

```
int maleStudents = 12
int femaleStudents = 12
int nrStudents
byte allStudents

nrStudents = maleStudents + femaleStudents
allStudents = nrStudents
```

6. Fix the above code so it works.

7. Will the following code work?

This is a question which actually requires a bit of thinking :)

```
int maleStudents = 12
int femaleStudents = 12
int nrStudents

nrStudents = maleStudents + femaleStudents
```

8. Will the following code work?

This is a question which actually requires a bit of thinking :)

```
int maleStudents = 2147483647
int femaleStudents = 2147483647
int nrStudents

nrStudents = maleStudents + femaleStudents
```