CvP - Werkcollege 6

Exercise 1   What is a cast?

Exercise 2   What is an overloaded operator?

Exercise 3   Define narrowing and widening conversions.

Exercise 4   In JavaScript, what is the difference between == and ===?

Exercise 5   What is a mixed-mode expression?

Exercise 6   What are the advantages of referential transparency?

Exercise 7   Would it be a good idea to eliminate all operator precedence rules and require parentheses to show the desired precedence in expressions? Why or why not?

Exercise 8   Describe a situation in which the add operator in a programming language would not be commutative.

Exercise 9   Describe a situation in which the add operator in a programming language would not be associative.

Exercise 10   Let the function fun be defined as

```
int fun(int *k) {
    *k += 4;
    return 3 * (*k) - 1;
}
```

Suppose fun is used in a program as follows:

```
void main() {
    int i = 10, j = 10, sum1, sum2;
    sum1 = (i / 2) + fun(&i);
    sum2 = fun(&j) + (j / 2);
}
```

What are the values of `sum1` and `sum2`

(a) if the operands in the expressions are evaluated left to right?

(b) if the operands in the expressions are evaluated right to left?

Exercise 11 Explain how the coercion rules of a language affect its error detection.