TD N°01 language C++

Exercise 1:

```
Enoncé
Quels résultats fournit le programme suivant :
    #include <iostream>
    using namespace std ;
    main ()
{
    int i, j, n ;
        i = 0 ; n = i++ ;
        cout << "A : i = " << i << " n = " << n << "\n" ;

    i = 10 ; n = ++ i ;
    cout << "B : i = " << i << " n = " << n << "\n" ;

    i = 20 ; j = 5 ; n = i++ * ++ j ;
    cout << "C : i = " << i << " j = " << j << " n = " << n << "\n" ;

    i = 15 ; n = i += 3 ;
    cout << "D : i = " << i << " n = " << n << "\n" ;

    i = 3 ; j = 5 ; n = i *= --j ;
    cout << "E : i = " << i << " j = " << j << " n = " << n << "\n" ;
}</pre>
```

Exercise 2:

```
Énoncé
Quels résultats fournira ce programme :
 #include <iostream>
 using namespace std ;
 main()
    int n=10, p=5, q=10, r;
    r = n == (p = q);
    cout << "A : n = " << n << " p = " << p << " q = " << q
                      << " r = " << r << "\n" ;
    n = p = q = 5;
    n += p += q;
    cout << "B : n = " << n << " p = " << p << " q = " << q << "\n" ;
    q = n 
    cout << "C : n = " << n << " p = " << p << " q = " << q << "\n" ;
    q = n > p ? n++ : p++ ;
    cout << "D : n = " << n << " p = " << p << " q = " << q << "\n" ;
```

Exercise 3:

```
Énoncé
Quels résultats fournira ce programme :
 #include <iostream>
 using namespace std ;
 main()
 { int n, p, q;
    n = 5 ; p = 2 ;
                                                   /* cas 1 */
    q = n++ > p \mid \mid p++ \mid = 3; cout << "A : n = " << n << " p = " << p << " q = " << q << " \n";
                                                    /* cas 2 */
    n = 5 ; p = 2 ;
    q = n++<p || p++ != 3 ;
    cout << "B : n = " << n << " p = " << p << " q = " << q << "\n" ;
    n = 5; p = 2;
                                                   /* cas 3 */
    n = 5; p = 2;
                                                   /* cas 4 */
    q = ++n == 6 \&\& ++p == 3; cout << "D : n = " << n << " p = " << p << " q = " << q << "\n" ;
```