

**Comprensione del codice: descrivere cosa fanno i seguenti programmi ed individuare eventuali errori spiegando il perchè.**

Esercizio 1:

C/C++

```
int main() {
    int a, b,* p1,* p2;
    a = 3;
    b = 5;
    p1 = &a;
    p2 = &b;
    cout << *p1 << *p2 << a << b << endl;
    p1 = p2;
    *p2 = 7;
    a = 10;
    cout << *p1 << *p2 << a << b << endl;
    a = 8;
    b = 12;
    p1 = &a;
    p2 = &a;
    *p1 = 4;
    *p2 = 24;
    cout << *p1 << *p2 << a << b;
}
```

Esercizio 2:

C/C++

```
#include<iostream>
using namespace std;

int main() {
    char* pc, c;
    pc = &c;
    for (c = 'A'; c <= 'Z'; c++)
        cout << *pc << " ";
    return 0;
}
```

### Esercizio 3:

C/C++

```
#include<iostream>
using namespace std;

int main() {
    int ival = 1024, ival2 = 2048;
    int* pi1 = &ival, * pi2 = &ival2, ** pi3 = 0;

    ival = *pi3;

    *pi2 = *pi3;

    ival = pi2;

    pi2 = *pi1;

    pi1 = *pi3;

    ival = *pi1;
    cout << ival << *pi1 << endl;
    pi1 = ival;

    pi3 = &pi2;
    cout << **pi3 << endl;
    return 0;
}
```

## Esercizio 4:

C/C++

```
#include<iostream>
using namespace std;

int main() {
    int ival = 1.01;

    int &rval1=1.01;

    int& rval2 = ival;

    int & rval3=&ival;

    int pi=&ival;

    int & rval4=pi;

    const int& ival2 = 1;
    return 0;
}
```

## Esercizio 5:

C/C++

```
int main() {
    int x = 2, y = 3;
    int& a = x;
    cout << a << endl;
    cout << &a << " " << &x << " " << &y << endl;
    a = y;
    cout << a << x << y << endl;
    a = 7;
    cout << a << x << y << endl;
    cout << &a << " " << &x << " " << &y << endl;
    return 0;
}
```

## Esercizio 6:

C/C++

```
#include<iostream>
using namespace std;

int main() {
    int a[9] = {0, 1, 2, 3, 4, 5, 6, 7, 8};
    int* pinizio = a;
    int* pfine = a + 9;

    while (pinizio != pfine) {
        cout << *pinizio;
        ++pinizio;
    }
    return 0;
}
```