Esercizio 2

Si consideri il seguente programma.

```cpp
#include<iostream>
using std::cout;

class It {
  friend class C;
public:
  bool operator<(It i) {return index < i.index;}
  It operator++(int) { It t = *this; index++; return t; }
  It operator+(int k) {index = index + k; return *this; }
private:
  int index;
};
class C {
public:
  C(int k) {
    if (k>0) {dim=k; p = new int[k];}
```

```cpp
    for(int i=0; i<k; i++) *(p+i)=i;
  }
  It begin() { It t; t.index = 0; return t; }
  It end() { It t; t.index = dim; return t; }
  int& operator[](It i) {return *(p + i.index);}
private:
  int* p;
  int dim;
};

main() {
  C c1(4), c2(8);
  for(It i = c1.begin(); i < c1.end(); i++) cout << c1[i] << ' ';
  cout << "UNO\n";
  It i = c2.begin();
  for(int n=0; i < c2.end(); ++n, i = i+n) cout << c2[i] << ' ';
  cout << "DUE\n";
}
```