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#include <iostream>
#include <iomanip>
#include <assert.h>
#include <vector>
using namespace std;
//Bond property
enum bondType{
    BD_ROW = 1,
    BD_COL = -1
};

class SyTensor_t;
class Bond_t {
public:
    Bond_t(bondType, vector<Qnum_t>& qnums);
    Bond_t(const Bond_t& _b):type(_b.type), dim(_b.dim), Qnums(_b.Qnums), Qdegs(
_b.Qdegs), offsets(_b.offsets){
        //cout<<"Copying Bond "<< this <<" from " << &_b << endl;
    }
    friend class SyTensor_t;
    friend ostream& operator<< (ostream& os, const Bond_t& b);
    friend ostream& operator<< (ostream& os, SyTensor_t& SyT);
    ~Bond_t();
private:
    bondType type;
    int dim;
    vector<Qnum_t>Qnums;    //Quantum numbers
    vector<int>Qdegs;    //Degeneracy in each quantum sector
    vector<int>offsets;
};

```