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<pre> #include "phone.hpp" // Representaci3 de Theta amb 0 phone::phone(nat num, const string& name, nat compt) throw(error) { // Cost: 0(n), on n es la longitud de l'string 'name' for(nat i=0; i<name.size(); i++) { if(name[i]==DELETECHAR or name[i]==ENDPREF) throw error(ErrNomIncorrecte); } name_phone = name; freq= compt; number = num; } /* Tres grans. Constructor per copia, operador d'assignacio i destructor. */ phone::phone(const phone& T) throw(error) { // Cost: 0(1). Constant name_phone = T.name_phone; number = T.number; freq = T.freq; } phone& phone::operator=(const phone& T) throw(error) { // Cost: 0(1). Constant name_phone = T.name_phone; number = T.number; freq = T.freq; return *this; } phone::~~phone() throw() { // Cost: 0(1). Constant } /* Retorna el numero de telefon. */ nat phone::numero() const throw() { // Cost 0(1). Constant return number; } /* Retorna el name associat al telefon, eventualment l'string buit. */ string phone::nom() const throw() { // Cost 0(1). Constant return name_phone; } /* Retorna el numero de vegades que s'ha trucat al telefon. */ nat phone::frequencia() const throw() { // Cost 0(1). Constant return freq; } /* Operador de preincrement. */ phone& phone::operator++() throw() </pre>		

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<pre> { // Cost 0(1). Constant freq = freq + 1; return *this; } /* Operador de postincrement. */ phone phone::operator++(int) throw() { // Cost 0(1). Constant phone aux = *this; freq = freq + 1; return aux; } /* Operadors de comparacio. */ bool phone::operator==(const phone& T) const throw() { // Cost 0(1). Constant bool igual = false; if(freq == T.freq and name_phone==T.name_phone) igual = true; return igual; } bool phone::operator!=(const phone& T) const throw() { // Cost 0(1). Constant return not (*this==T); } bool phone::operator<(const phone& T) const throw() { // Cost 0(1). Constant bool petit = false; if (freq<T.freq) petit = true; else if(freq == T.freq and name_phone<T.name_phone) petit = true; return petit; } bool phone::operator>(const phone& T) const throw() { // Cost 0(1). Constant bool gran = false; if (freq>T.freq) gran = true; else if(freq == T.freq and name_phone>T.name_phone) gran = true; return gran; } bool phone::operator<=(const phone& T) const throw() { // Cost 0(1). Constant return (*this<T) or (*this==T); } bool phone::operator>=(const phone& T) const throw() { // Cost 0(1). Constant return (*this>T) or (*this==T); } /* Caracters especials no permesos en un name de telefon. */ static const char DELETECHAR = '<'; </pre>		

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static const char ENDCHAR = '|';
static const char ENDPREF = '\0';

/* Gestio d'errors. */
static const int ErrNomIncorrecte = 11;

// g++ phone.cpp -o phone.e -O0 -g -Wall -Wextra -Werror -Wno-sign-compare -std=
c++14 -ansi -I /home/bruna/ESIN/projecte/incl -lesin
```