

```
/*
 * Error.h
 *
 * Created on: Dec 28, 2009
 * Author: koscum
 */

#ifndef ERROR_H_
#define ERROR_H_

#include <iostream>

namespace GF
{
    class GF;
    class Polynomial;

    class Error
    {
    public:
        virtual ~Error();

    protected:
        void Out(std::ostream&) const;

    private:
        friend class GF;
        friend class Polynomial;

        Error(int);

        friend std::ostream& operator <<(std::ostream&, const Error&);

    public:
        static const int BASE_NOT_PRIME;
        static const int BASE_NOT_PRIME_POWER;
        static const int POLYNOMIAL_NOT_IRREDUCIBLE;
        static const int DIVISION_BY_ZERO;
        static const int ORDER_NOT_ZERO;
        static const int ORDER_LESS_THAN_ZERO;
        static const int NEGATIVE_ORDER_OF_COEFICIENT;

    private:
        int message;
    };
}

#endif /* ERROR_H_ */
```