**ОПЗ код**

#include <QCoreApplication>

#include <QTextCodec>

#include <QTextStream>

#include <QString>

#include <iostream>

#include <fstream>

#include <stack>

#include <string>

*using* *namespace* std;

void **creat\_file\_pro**(string name){

ofstream fout;

name = name + ".pro";

fout.open(name);

fout <<"QT -= gui\n\n" << "CONFIG += c++11 console\n" << "CONFIG -= app\_bundle\n" << "DEFINES += QT\_DEPRECATED\_WARNINGS\n" << "SOURCES += " << "Xmmmm.cpp";

fout.close();

}

void **solve\_rpn**(){

creat\_file\_pro("solve");

ofstream fout;

stack <long double> s;

long double z1 = 0, z2 = 0, i = 0;

char a;

fout.open("Xmmmm.cpp");

fout << "#include <QCoreApplication>\n" << "#include <QTextCodec>\n" << "#include <QTextStream>\n" << "#include <QString>\n" << "#include <iostream>\n" << "using namespace std;\n\n" << "int main()\n" << "{\n" << "setlocale(LC\_ALL, \"rus\");\n";

cout << QString::fromUtf8("Введите обратную польскую запись:\n").toLocal8Bit().data();

a = getchar();

*while* (a != ' '){

*switch* (a) {

*case* '+':

z1 = s.top();

s.pop();

z2 = s.top();

s.pop();

fout << "long double a" << i << ";\n";

fout << 'a' << i++ << " = " << z1 << " + " << z2 << ";\n" ;

s.push(z1+z2);

*break*;

*case* '-':

z1 = s.top();

s.pop();

z2 = s.top();

s.pop();

fout << "long double a" << i << ";\n";

fout << 'a' << i++ << " = " << z1 << " - " << z2 << ";\n" ;

s.push(z1-z2);

*break*;

*case* '\*':

z1 = s.top();

s.pop();

z2 = s.top();

s.pop();

fout << "long double a" << i << ";\n";

fout << 'a' << i++ << " = " << z1 << " \* " << z2 << ";\n" ;

s.push(z1\*z2);

*break*;

*case* '/':

z1 = s.top();

s.pop();

z2 = s.top();

s.pop();

fout << "long double a" << i << ";\n";

fout << 'a' << i++ << " = " << z1 << " / " << z2 << ";\n" ;

s.push(z1/z2);

*break*;

*default*:

s.push(a - '0');

*break*;

}

a = getchar();

}

cout << QString::fromUtf8("Ответ: ").toLocal8Bit().data() << s.top();

getchar();

fout << "cout <<QString::fromUtf8( \"Ответ: \").toLocal8Bit().data() << " << 'a' << --i << ";\n";

fout << "getchar();\n" << "}";

fout.close();

}

int **main**(int argc, char \*argv[])

{

#ifdef Q\_OS\_WIN32

QTextCodec::setCodecForLocale(QTextCodec::codecForName("IBM 866"));

#endif

#ifdef Q\_OS\_LINUX

QTextCodec::setCodecForLocale(QTextCodec::codecForName("UTF-8"));

#endif

QCoreApplication app(*argc*, argv);

solve\_rpn();

*return* app.exec();

}

**Результат при даных:**

9435-+\*

#include <QCoreApplication>

#include <QTextCodec>

#include <QTextStream>

#include <QString>

#include <iostream>

*using* *namespace* std;

int **main**()

{

setlocale(LC\_ALL, "rus");

long double a0;

a0 = 5 - 3;

long double a1;

a1 = 2 + 4;

long double a2;

a2 = 6 \* 9;

cout <<QString::fromUtf8( "Ответ: ").toLocal8Bit().data() << a2;

getchar();

}