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// Лабораторная работа 1, Необходимо спроектировать и запрограммировать на языке C++ классы фигур, согласно варианту задания.

// Вариант 14: 5-угольник, 6-угольник, 8-угольник

#include <iostream>

#include <cstdlib>

#include "Pentagon.h"

#include "Hexagon.h"

#include "Octagon.h"

void help()

{

std::cout << "Press 0 to get help" << std::endl;

std::cout << "Press 1 to work with Pentagon" << std::endl;

std::cout << "Press 2 to work with Hexagon" << std::endl;

std::cout << "Press 3 to work with Octagon" << std::endl;

std::cout << "Press 4 to exit" << std::endl;

}

int main() {

help();

int k;

Figure \*ptr;

while(std::cin >> k) {

switch(k) {

case 0:

help();

break;

case 1:

ptr = new Pentagon(std::cin);

ptr->Print();

std::cout << "Square = " << ptr->Square() << std::endl;

delete ptr;

break;

case 2:

ptr = new Hexagon(std::cin);

ptr->Print();

std::cout << "Square = " << ptr->Square() << std::endl;

delete ptr;

break;

case 3:

ptr = new Octagon(std::cin);

ptr->Print();

std::cout << "Square = " << ptr->Square() << std::endl;

delete ptr;

break;

case 4:

exit(EXIT\_SUCCESS);

default:

std:: cerr << "Error" << std:: endl;

exit(EXIT\_FAILURE);

}

}

return 0;

}