1

a.

03

b.

2-4-8-

c.

3413

d.

5 4.5 6 1.5

211110000

e.

3 0

f.

124816

g.

1003412521111…

h.

1002561

2.

9

69

5559

3

#include <iostream>

using namespace std;

double enterGrades (int ia[256], double& mean)

{

int n=0,ival=0, icnt =0;

cout << "please enter N\n";

cin >> n;

cout << "please enter Grades\n";

while (cin>> ival && icnt < n)

ia [icnt++] = ival;

int sum =0;

for (int ix =0; ix < n; ++ix)

sum += ia[ix];

mean = sum/n;

return mean;

}

int main()

{

int grades[256];

double mean;

enterGrades(grades, mean);

cout << "average = " << mean << '\n';

return 0;

}

4.

#include<iostream>

using namespace std;

class Complex

{

private:

double real, imag;

public:

Complex(double r=0, double i=0) {real =r; imag =i;}

Complex operator +(const Complex&) const;

friend Complex operator -(Complex&, Complex&);

friend ostream& operator << (ostream& os, const Complex& m)

{

os << '(' << m.real << ',' << m.imag << ')';

return os;

}

};

Complex Complex::operator + (const Complex& m)

const {

Complex result;

result.real = this->real + m.real;

result.imag + this->imag + m.imag;

return result;

}

Complex operator -( Complex& x, Complex& y)

{

return Complex(x.real-y.real, x.imag-y.imag);

}

int main()

{

Complex a(1.0,1.5);

Complex b(1.0);

Complex c(1.5,2.3);

Complex d = a+ b;

Complex e = a- b;

cout << e;

}

5.

#include <iostream>

using namespace std;

int fact(int x)

{

int S = 1;

for (int i=1; i<=x; ++i)

S \*= i;

return S;

}

int fact2(int x)

{

int S=1;

if(x>1)

S = x \* fact2(x-1);

return S;

}

int main()

{

cout << fact(6)<< '\n';

cout << fact2(3) << '\n';

}

6.

#include <iostream>

using namespace std;

int sum(int a[], int first , int last)

{

int s=0;

for(int i=first; i<=last ; ++i)

s += a[i];

return s;

}

int main()

{

int a[]= {1,2,3,4,5,6,7};

cout << sum (a,3,5) << "\n";

}