1.4

#include <iostream>

using *namespace* std;

*int* main(){

*int* size, max;

    cout << "Size = ";

    cin >> size;

*int* array[size];

    for(*int* i = 0; i < size; i++){

        cout << "Enter array[" << i << "] :";

        cin >> array[i];

    }

    max = array[0];

    for(*int* i = 0; i < size; i++){

       if(array[i] > max){

        max = array[i];

       }

    }

    cout << "\n\nMAX = " << max << endl;

    return 0;

}

1.5

#include <iostream>

using *namespace* std;

*double* maxNum(*double* *x*, *double* *y*, *double* *z*){

*double* max = *x*;

    if(*y* > max){

        max = *y*;

    }

    if(*z* > max){

        max = *z*;

    }

    return max;

}

*double* minNum(*double* *x*, *double* *y*, *double* *z*){

*double* min = *x*;

    if(*y* < min){

        min = *y*;

    }

    if(*z* < min){

        min = *z*;

    }

    return min;

}

*int* main(){

*double* x, y, z;

    cin >> x >> y >> z;

    if(x == maxNum(x, y, z)){

        x = x \* x;

    }

    if(z == maxNum(x, y, z)){

        z = z \* z;

    }

    if(y == maxNum(x, y, z)){

        y = y \* y;

    }

    if(x == minNum(x, y, z)){

        x = 0;

    }

    if(z == minNum(x, y, z)){

        z = 0;

    }

    if(y == minNum(x, y, z)){

        y = 0;

    }

    cout << x << " " << y << " " << z << endl;

    return 0;

}

2.4

#include <iostream>

using *namespace* std;

*int* main(){

*int* size, min;

    cout << "Size = ";

    cin >> size;

*int* array[size];

    for(*int* i = 0; i < size; i++){

        cout << "Enter array[" << i << "] :";

        cin >> array[i];

    }

    min = array[0];

    for(*int* i = 0; i < size; i++){

       if(array[i] < min){

        min = array[i];

       }

    }

    cout << "\n\nMIN = " << min << endl;

    return 0;

}

2.5

#include <iostream>

using *namespace* std;

*double* findMax(*double* *a*, *double* *b*){

    if(*a* > *b*){

        return *a*;

    }else{

        return *b*;

    }

}

*int* main(){

*double* x, y, z, t;

    cout << "Enter x, y, z, t :";

    cin >> x >> y >> z >> t;

    cout << "\n\nMAX = " << findMax(x \* y, z \* t) << endl;

    return 0;

}

3.4

#include <iostream>

#include <cmath>

using *namespace* std;

*int* main(){

*double* a, b, c;

    cout << "ax^2 + bx + c = 0\n Enter a, b, c : ";

    cin >> a >> b >> c;

*double* D = pow(b, 2) - 4 \* a \* c;

    if(D > 0){

*double* x1 = (-b + sqrt(D)) / (2 \* a);

*double* x2 = (-b - sqrt(D)) / (2 \* a);

        cout << "\nx1 = " << x1 << "\nx2 = " << x2;

    }else if(D == 0){

*double* x = -b/(2 \* a);

        cout << " oba Korni ravni " << x;

    }else{

*double* xrealpart = -b  / (2 \* a);

*double* ximaginarypart = (sqrt(-D)) / (2 \* a);

        cout << "dva kompleksnix kornya" << endl;

        cout << "Корень 1: " << xrealpart << " + " << ximaginarypart << "i" << endl;

        cout << "Корень 2: " << xrealpart << " - " << ximaginarypart << "i" << endl;

    }

    return 0;

}

*3.5*

#include <iostream>

using *namespace* std;

*unsigned* *long* *long* factorial(*int* *x*){

    if(*x* == 1 || *x* == 0){

        return 1;

    }else{

        return factorial(*x* - 1) \* *x*;

    }

}

*int* main(){

*unsigned* *long* *long* result = 1;

    for(*int* i = 1; i <= 100; i++){

        result \*= i;

    }

    cout << result;

    return 0;

}

4.4

#include <iostream>

using *namespace* std;

*int* main(){

*double* a, b, x;

    cout << "ax + b = 0\nEnter a, b :";

    cin >> a >> b;

    if(a == 0 && b == 0){

        cout << "\nu dannoqo uravneniya beskonechno mnoqo resheniy";

    }else if(a == 0 && b != 0){

        cout << "\nnet resheniy";

    }else{

        x = -b / a;

        cout << endl << x << endl;

    }

    return 0;

}

4.5

#include <iostream>

using *namespace* std;

*unsigned* *long* *long* factorial(*int* *x*){

    if(*x* == 1 || *x* == 0){

        return 1;

    }else{

        return factorial(*x* - 1) \* *x*;

    }

}

*int* main(){

*unsigned* *long* *long* result = 1;

*int* i = 1;

    while(i <= 100){

        result \*= i;

        i++;

    }

    cout << result;

    return 0;

}

5.4

#include <iostream>

using *namespace* std;

*double* maxNum(*double* *x*, *double* *y*, *double* *z*){

*double* max = *x*;

    if(*y* > max){

        max = *y*;

    }

    if(*z* > max){

        max = *z*;

    }

    return max;

}

*double* minNum(*double* *x*, *double* *y*, *double* *z*){

*double* min = *x*;

    if(*y* < min){

        min = *y*;

    }

    if(*z* < min){

        min = *z*;

    }

    return min;

}

*int* main(){

*double* x, y, z;

    cout << "Enter x, y, z: " << endl;

    cin >> x >> y >> z;

    cout << minNum(x, y, z) << endl;

    cout << maxNum(x, y, z) << endl;

    return 0;

}

5.5

#include <iostream>

#include <cmath>

using *namespace* std;

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

*double* r;

    cout << "Enter radius: ";

    cin >> r;

*double* s = M\_PI \* pow(r, 2);

    cout << "s = " << s << endl;

    return 0;

}

6.4

#include <iostream>

using *namespace* std;

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

*int* size;

    cout << "Enter size: ";

    cin >> size;

*int* array[size];

    for(*int* i = 0; i < size; i++){

        cout << "enter array[" << i << "]: ";

        cin >> array[i];

    }

*int* sum = 0;

    for(*int* i = 0; i < size; i++){

        if(array[i] > 0){

            sum += array[i];

        }

    }

    cout << "\nsum = " << sum << endl;

    return 0;

}

6.5

#include <iostream>

#include <cmath>

using *namespace* std;

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

*unsigned* *long* *long* result = 1;

*int* i = 1;

    do{

        result \*= i;

        i++;

        }while(i <= 6);

    cout << result;

    return 0;

}

7.4

#include <iostream>

using *namespace* std;

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

*int* size;

    cout << "Enter size: ";

    cin >> size;

*int* array[size];

    for(*int* i = 0; i < size; i++){

        cout << "enter array[" << i << "]: ";

        cin >> array[i];

    }

*int* count = 0;

    for(*int* i = 0; i < size; i++){

        if(array[i] < 0){

            count += 1;

        }

    }

    cout << "\nCount = " << count << endl;

    return 0;

}

7.5

#include <iostream>

#include <cmath>

using *namespace* std;

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

*double* katet1, katet2;

    cout << "Vvedite kateti: ";

    cin >> katet1 >> katet2;

*double* hypot = sqrt(pow(katet1, 2) + pow(katet2, 2));

*double* p = katet1 + katet2 + hypot;

*double* s = katet1 \* katet2 / 2;

    cout << "Perimetr = " << p << endl;

    cout << "Ploshad = " << s << endl;

    return 0;

}

8.4

#include <iostream>

#include <cmath>

using *namespace* std;

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

*double* a, b, c;

    cout << "Vvedite storoni: ";

    cin >> a >> b >> c;

    if(a < 0 || b < 0 || c < 0){

        cout << "Vi vveli otric storoni. Storona ne mojet bit otricatelnoy" << endl;

        return 1;

    }

    if(a + b < c || b + c < a || c + a < b){

        cout << "takoqo treuqolnika ne suwestvuet" << endl;

        return 1;

    }

*double* perimetr = a + b + c;

*double* poluperimetr = perimetr / 2;

*double* ploshad = sqrt(poluperimetr \* (poluperimetr - a) \* (poluperimetr - b) \* (poluperimetr - c));

    cout << "Perimetr = " << perimetr << endl;

    cout << "Ploshad = " << ploshad << endl;

    return 0;

}