

O'ZBEKISTON RESPUBLIKASI AXBOROT TEXNOLOGIYALARI VA
KOMMUNIKATSIYALARINI RIVOJLANTIRISH VAZIRLIGI
MUHAMMAD AL-XORAZMIY NOMIDAGI TOSHKENT AXBOROT
TEXNOLOGIYALARI UNIVERSITETI

Amaliy ish

Algoritmlarni loyihalash

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Algoritmlarni loyihalash. Algoritm korrekt va samaradorligini baholash.
Kvadrat tenglama ildizlarini aniqlash algoritmi. Uchburchak yuzasi uchun
Geron formulasi.

1. Kvadrat tenglama ildizlarini aniqlash algoritmi.

```
namespace Topshiriq_1;

internal class Program
{
    static void Main(string[] args)
    {
        double A, B, C;
        Console.Write("A(A!=0)=");
        A = int.Parse(Console.ReadLine());
        Console.Write("B=");
        B = int.Parse(Console.ReadLine());
        Console.Write("C=");
        C = int.Parse(Console.ReadLine());
        Console.WriteLine();
        double D = B * B - 4 * A * C;
        if (D > 0)
        {
            Console.WriteLine("X1=" + (-B + Math.Sqrt(D)) / (2 * A));
            Console.WriteLine("X2=" + (-B - Math.Sqrt(D)) / (2 * A));
        }
        else if (D == 0)
        {
            Console.WriteLine("X=" + (-B) / (2 * A));
        }
        else
        {
            Console.WriteLine("Ildizga ega emas!");
        }
    }
}
```

```

1 namespace Topshiriq_1;
2
3 Ссылка: 0
4 internal class Program
5 {
6     Ссылка: 0
7     static void Main(string[] args)
8     {
9         double A, B, C;
10        Console.WriteLine("A(A!=0)=");
11        A = int.Parse(Console.ReadLine());
12        Console.WriteLine("B=");
13        B = int.Parse(Console.ReadLine());
14        Console.WriteLine("C=");
15        C = int.Parse(Console.ReadLine());
16        Console.WriteLine();
17        double D = B * B - 4 * A * C;
18        if (D > 0)
19        {
20            Console.WriteLine("X1=" + (-B + Math.Sqrt(D)) / (2 * A));
21            Console.WriteLine("X2=" + (-B - Math.Sqrt(D)) / (2 * A));
22        }
23        else if (D == 0)
24        {
25            Console.WriteLine("X=" + (-B) / (2 * A));
26        }
27        else
28        {
29            Console.WriteLine("Ildizga ega emas!");
30        }
31    }
32 }

```

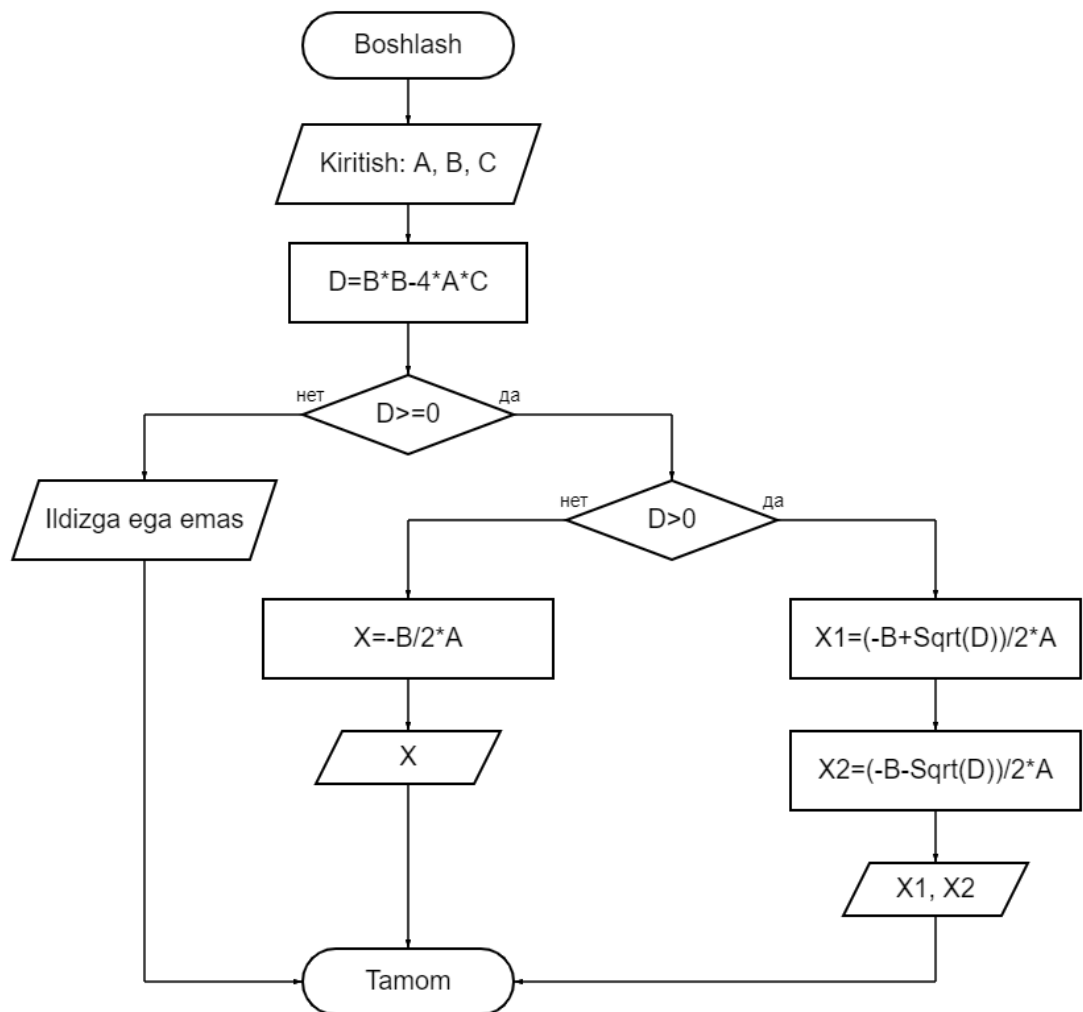
Консоль отладки Мис

```

A(A!=0)=1
B=5
C=6

X1=-2
X2=-3

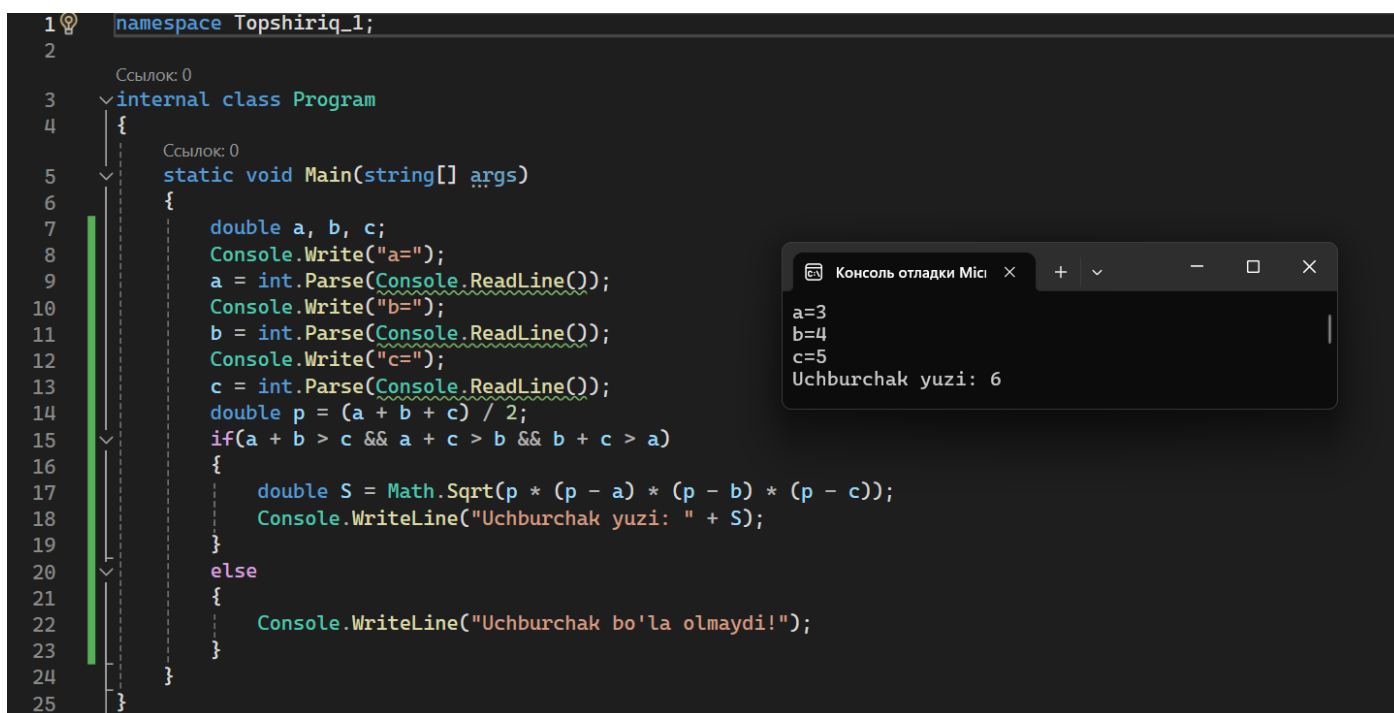
```



2. Uchburchak yuzasi uchun Geron formulasi.

```
namespace Topshiriq_1;

internal class Program
{
    static void Main(string[] args)
    {
        double a, b, c;
        Console.Write("a=");
        a = int.Parse(Console.ReadLine());
        Console.Write("b=");
        b = int.Parse(Console.ReadLine());
        Console.Write("c=");
        c = int.Parse(Console.ReadLine());
        double p = (a + b + c) / 2;
        if(a + b > c && a + c > b && b + c > a)
        {
            double S = Math.Sqrt(p * (p - a) * (p - b) * (p - c));
            Console.WriteLine("Uchburchak yuzi: " + S);
        }
        else
        {
            Console.WriteLine("Uchburchak bo'la olmaydi!");
        }
    }
}
```



```
1 namespace Topshiriq_1;
2
3 internal class Program
4 {
5     static void Main(string[] args)
6     {
7         double a, b, c;
8         Console.Write("a=");
9         a = int.Parse(Console.ReadLine());
10        Console.Write("b=");
11        b = int.Parse(Console.ReadLine());
12        Console.Write("c=");
13        c = int.Parse(Console.ReadLine());
14        double p = (a + b + c) / 2;
15        if(a + b > c && a + c > b && b + c > a)
16        {
17            double S = Math.Sqrt(p * (p - a) * (p - b) * (p - c));
18            Console.WriteLine("Uchburchak yuzi: " + S);
19        }
20        else
21        {
22            Console.WriteLine("Uchburchak bo'la olmaydi!");
23        }
24    }
25 }
```

Консоль отладки Мисі

a=3
b=4
c=5
Uchburchak yuzi: 6

