s=1/2|x1\*y2-x2\*y1+ x2\*y3-x3\*y2+… xn-1\*yn-xn\*yn-1+ xn+1\*yn-xn\*yn+1)

n+1=1

(x-x1)/(x2-x1)=(y-y1)/(y2-y1)

(x-x1)\*(y2-y1)=(y-y1)\* (x2-x1)

(x-x3)\*(y4-y3)=(y-y3)\* (x4-x3)

x, y

x1<x<x2

x2<x<x1

x3<x<x4

x4<x<x3