```
In [1]:
        import math
        n=int(input("n = "))
        g=int(input("g = "))
        for i in range(2,n):
            if(n%i==0):
                 print("Invalid")
        for i in range(2,g):
            if(g%i==0):
                 print("Invalid")
                 break
        x=int(input("No. selected by Alice: "))
        y=int(input("No. selected by Bob: "))
        A=(math.pow(g,x))%n
        B=(math.pow(g,y))%n
        print("\nA=",A)
        print("B=",B)
        k1=(math.pow(B,x))%n
        k2=(math.pow(A,y))%n
        print("\nk1=",k1)
        print("k2=",k2)
        if(k1==k2):
            print("Algo is correct")
        else:
            print("Algo is wrong")
        n = 6
        g = 5
        Invalid
        No. selected by Alice: 3
        No. selected by Bob: 2
        A = 5.0
        B=1.0
        k1 = 1.0
        k2 = 1.0
        Algo is correct
In [ ]:
```

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