• Algorithm to Add Large Numbers Using Arrays

1. Define *n*, *m* as maximum number of digits in the numbers a, b
2. Define array of size a[m], b[n]
3. For(i=0 to m)
    a. Read (a[i])
4. For(j=0 to n)
    a. Read (b[i])
5. Carry = 0; k=0; i=j=0
6. While(i<m)&&(j<n)
    a. if (a[i]+b[j]+carry>=10)
        - c[k]=(a[i]+b[j]+carry)%10
        - carry=1

        else
        - c[k]=(a[i]+b[j]+carry)%10
        - carry=0

    b. i++; j++; k++

7. if(i<m) /* First not ended
    - while(i<m)
        i. if(a[i]+carry)>=10
            1. c[k]=(a[i]+carry)%10
            2. carry=1
        ii. else
            1. c[k]=a[i]+carry
            2. carry=0
    - i++; k++

    if(j<n) /* 2nd not ended
    - while(j<=n)
        i. if(b[j]+carry)>=10
            1. c[k]=(b[j]+carry)%10
            2. carry=1
        ii. else
            1. c[k]=b[j]+carry
            2. carry=0
    - j++; k++

    if(carry)

c[k]=1