## multiplication for fositive Numbers (Stallings / Hamachen.

Ga AND/OR 1101 multipli (i) Grenerate portial product one x ! x 1011 mutif for each bit of multiplier. 1101 - partial

1101× (ii) Shift partial products by 1-bit 0000 \* x left to w.r.t. previous partial 1101xxx 2143 10001111 product.

(iii) sum of all partial product.

(iv) Result with be maximum of 2n bits it is n the length of both multiplier and multiplicant, Eg:- M= ON1

C A Q Count 0 0000 0011 (65600 C+0, A+0, 0 0111 0011 4;1 Q = multiplies m c multiplicand 1001 0011 1010 1001 200 0101 0100 0010 1010 [A < A+m] 00000 0101 Todal gade - dolar - Stp SHIFTER CAR, Q Count = Count - 1

N Count=0

3;

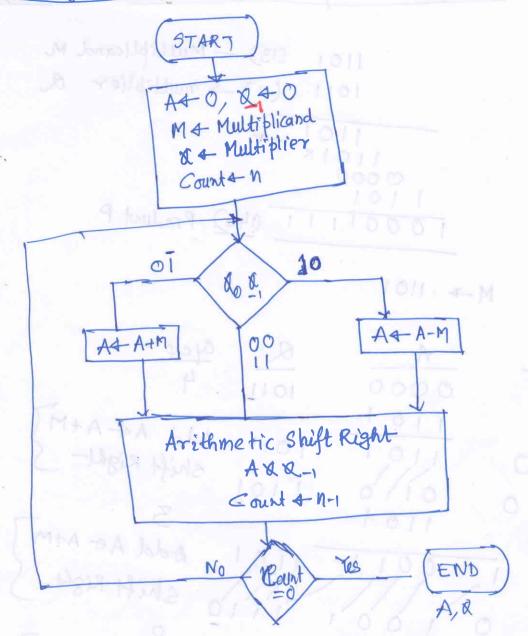
3;

2 ;

1

0

Booth Algorithm



Part Hank

THA -BA -A

719 Hue

0001