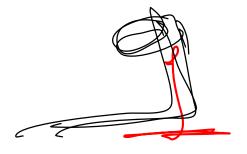
## **Discrete Maths**



Listall the Pastitions
of \$1,2,3,43 into two lasses.

75(234) {}

## Generating function

"One more way of solving problem" Addigst string to your bow An archer may use next string when Previous broken. A generaling function is a clothesline on which we hang up a sequence of numbers for display. "when it works, it is often the simplest. "For many prublems, it is okey to even reach closer to solution!

nth pringe number n = 3j.e. 5 7 M 13 2 x + 3 x + 5 x + 7 x 3 + 11 x h + - - - clothoslive i = 0

Ich. Given a sequence (set) of co-efficients (ao, a,, 92, -... a symbolic representation of sequence of examts or let it simply be a sequence = a.o. lis(x)+ a, le, (x) + a, 12(x) + rave called indicators. Mostly we will use obs

2x1 Sel 1 Find naving Sel 2

(2,5,7) Pains 12 per (10,5, 1)

total are element (10,5, 1)

none element (10,5, 1)

2210+2215+221 romany pains? + 25 210 + 25 25 + 25 x 1 +x17 + x12 + x6 How many ((2,10), (3,5)) 17, 15, 12, 10, 8, 7, 6, 3 are sommations of any two. From July

to distribute amonst 2 PPB 5x2.3 0 Syects [0, 1, 2, 3 (n) A 3 (x+x+x+x3) (20+2+x+23)  $\frac{x^{6}x^{6} + \frac{1}{2}x^{6} + \frac{1}{2}x^{2} + \frac{1}$ 

423 <	ojects - indirates	Le ways to	fistribute 3 o Spocs
Hary	3,0		
	0,3		
	2,1		
	1,2		
32 2 32 4 0	chs Lindicales	3 ways	to distribute 2 objects
# Ways	2,0		
	( /)		

2 2 2 2 songs to distribute 1 object  $\gamma$ ays Don't distaile. 9 9/ have only 3 objects in tot No endrerstanding of those as of now. Theyou want answer for more objects distinction,
you will noted to update from beginning.
i.e. #18135 [D11,2,3,4,5] [0,112,3,4,5] and weath Assignment;

Dishet shall be the value of 2 pholicator.

2 ip 2 pholicator.

(2) Find out connection borison posmulation and sorting.

Sorting -> Ascending -> Non-