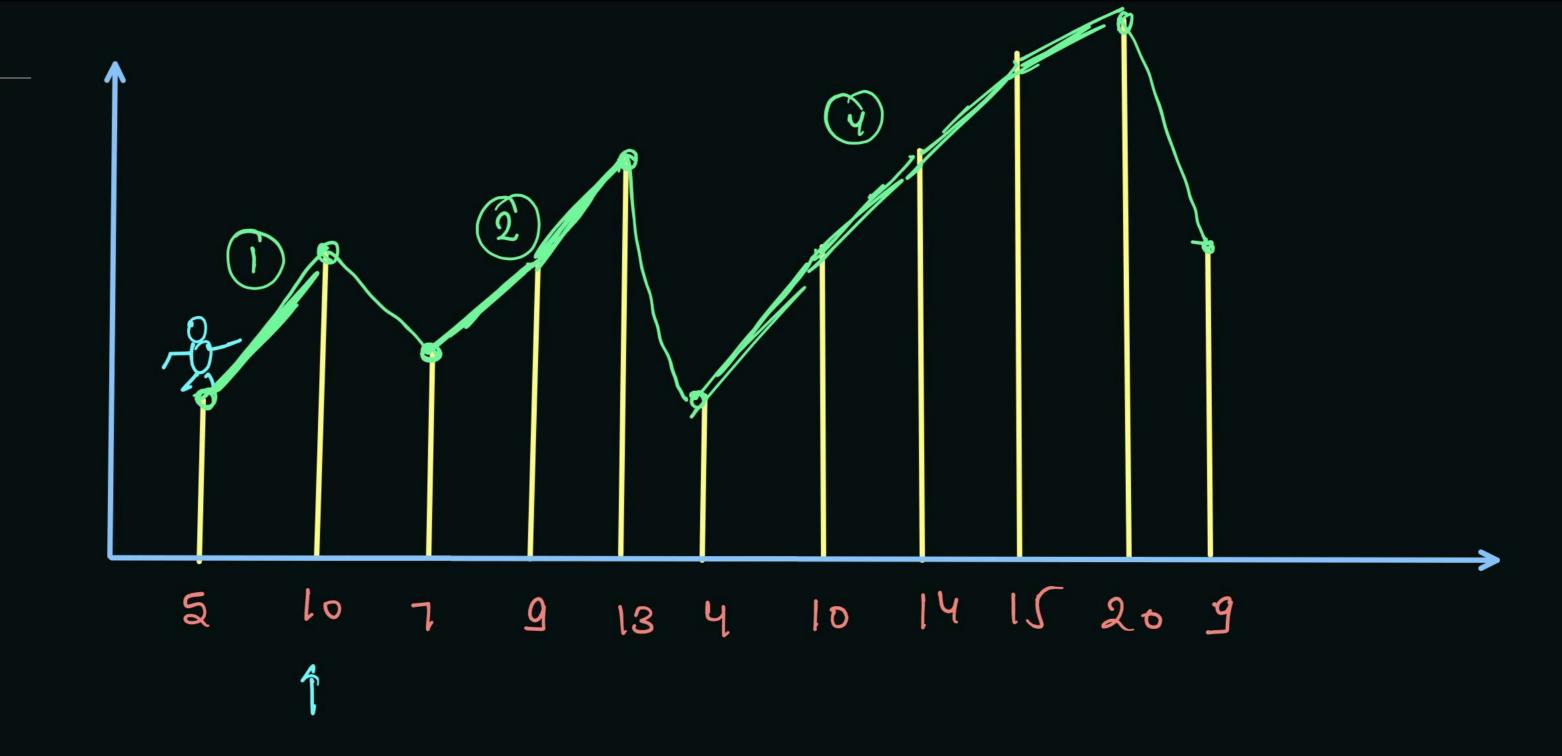
Find a Pair With Given Difference uesday, 9 November 2021 9:59 PM	poir boning &m = terre	lé=0 des poluter	Searching and
array 5 2	3 80 5 20	diff= 78	Storting
logic for difference			Sort
sort - 2 3	5 5 20 80		- Binary Seach
10 87	ti		* Time and Space
Osel () roitato	Possibility (1)	Possibility (2)	* Arrays-
4i = n-1	lo ++	hi	* Two pander
9 m foact on	gnitially it was DI	Dr-ADZ=)	Approch ?
difference	$D_1 - (\Delta D_1 \Rightarrow) (\widehat{D}_2)$	Where D2 < D1	
	where $D_2 < D_1$	Possibility (3)	
Options (a) $loz 0$ $+ii=1$	Possibility ()		D.
	gnitellity diff "1"	that the wasting it was still with shirt, different with after	nee gnorenes
Wias	barr, difference decross		

80 torget > 15 20 2nt nlogn traversal Sorting while (lo < hi) } o(hlogn) 10=2 / 2 différence = amfhi] - am[lo] hi = 1 2/ 2/ 4 if (difference == terrgot) diff= X 2 2 18 A (15) pair - prefam(le) + am(le)); } else if (difference > terropt) { 4 20) = lot+! > else } ₹ ÷ † ;

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amay.

if (am[i:1] < om[i]) }

count + f;

} else {

res = mouth.max(res, cout);

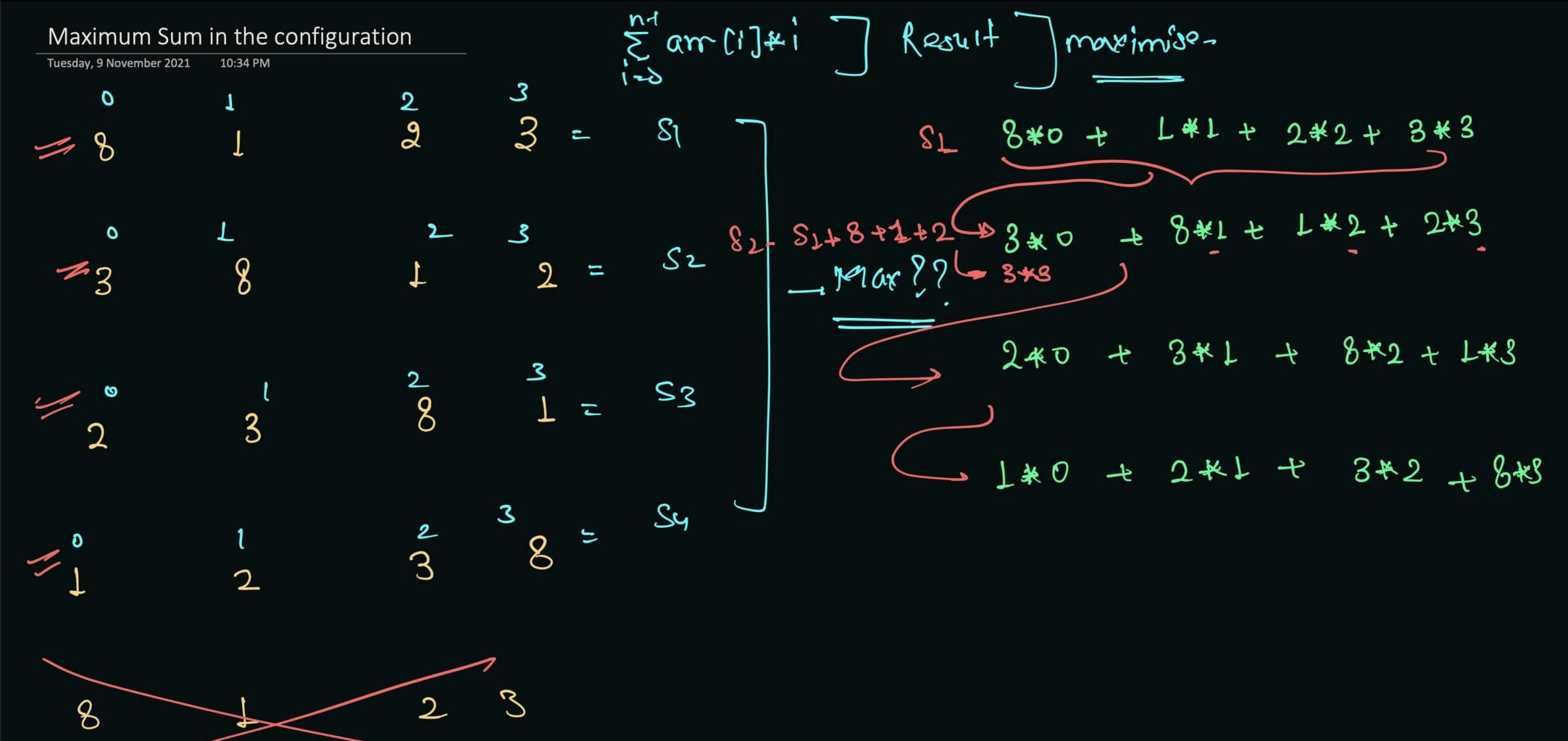
count = 0;

4) Result

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Maximum possible amagament amis elements = N of 41 = 4 ×3×24 1 = 24 array from all possible correspondent find more. Sum of n-1 Zi am [i] * 7 3]= 3×2=6 max, val will product a b c with mar. - a a o + b = 1 + c+2 = 51 possible index bac -1 b*0+a*1+c*2 = Sz bca maximum Sum cab sum will cba max. a cb Sost the array 25 and 1741



Sum of array 8= a+b+c+d+e array e ==== axo+b*1+c*2* d*3+ ex4 cd Q1= 640+ ax1 + px2+ cx3+ dx4 S1 = S0 + 9 + b+C+ d+e - e - e * 4 S, = So + Sum - @*5 82= d*0+ e*1+ a*2+ b*3+ c*4 82= SI+ e+ a+ b+ c+d - d - d*4 a b So = Si + S - d*5 S2= CXO+ dx1+ ex2+ ax3+ bx4 general Si= Si-1+8-n* am[n=1] > [S3= S2+S-C*5]

Steps to write code

- 1) find sum of among and So
- (2) Travel from iz1 and calculate Si

Si = Sin + Sum - nx am[n-i]

- (3) Maximise 8, and 8it and hold res in a vaniable,
- Return res.