3 Sum return all the remique forplets Such that 9i+9j+9k 2 0 & actor it jtk. Boute ]:

avo[] = [-1,0,1,2,-1,-4]. Triplet 1 [-, -, -]. explose all the different ways to selen index elem. or asoft z [ i j k ] to select 3 different Pseudo cochit for (i=0; i=n; i+1)s for (j'z i+1; j' cm; j'++) for (k=j+1; k<n; k++) e sort triplet -> Sun 20

P.C of Brite - Olm3) -> So op. Inuze it arr(i)+ arr[j)+ arr[l) 20. O(m²) for loop | curre iteracting i20-> n-1 | values of k. j=(+1-> n-1) | basically tomad who (- Caros (i) + aros (j) do, without traversing can we search A-(aros[i)) is present in array or out? -> hashing -> (but v+j+ k) L'amless both orso [i] l'avoi [i] are of 2000 (E) with 8010: E Civill only got those such that we neves choose same i j j index)
-1 0 1 2 -1 4). Dry Run Export v, do j'th all elem -(-1+0) betnils is not present Should be present in mp. do add aroutilin

has hig approach + Sold and SD 2=0-30-1 ls gzitl-sn-1 2 push every value in beth c'& j' in a mind hasheet. item z - (arri + arri) in the hashset if proceent - then. triplet 2 [ arr; s arr; s turd ikm].

L Sort it

Saturat

Sorted triplet is shored in a Set to 8 hore all anique triplet). Syntax; Est in vector. T.C > O(n2) x log (no) (n2e of \$1 to)
S.C > O(mod tripleto) (n2e of the stem
o(mod tripleto) (sorthind item
search)

M3) optimal Upproach a Set: To Store all Am -> To avoid for use of the triplets Approach: - 22 pointer + Sorling? so aver an = 7 7 approach: So uhaterer toplet > fixing i:-» were seneration is generate only. se can supplicate eleve (: consecutive) sorted. ( i e 8hip depluates Bisk forsame -> if same aci

> skip tre
ites ation Recipions Jugi (const) (Sorted) S / S / S / S / Same same 2) So they Sum: -2+-2+22-20 Is inc sum g others -2-1+2=-1<0M j++ bee -2+0+2=0 -> generate forplet -> Now.

for a new both 've (1++ & k-)

to plet a yeto be

(54) -> Non elwose oxt (i) but make dure it ( ne want to d avoid chicking for ensures possibility of a arotie (-2-2-2-1-1-1000 2222) PATATATATA same
at porer
at porer
seem z -1 -1 +2 20

rem to iplet generated

rill ai rot toud

is not toud

orionated

(j++, k--) bc2 = (ai+aj) de till both are difficulties of the contraction of the 2 not veny not I'll one is different will not fixed ) doesn't de (2 const in en so 3 od vor