Last times introduced vectors.
Last times introduced rectors. Basic rector Stuff:
- Declare one: veder Lint V; visited v
- Add an element: V. puch_back (3);
- Remove last element: V.pop-back();
- Access/modify an element: V[i] = 7;
- Get the Size of V: V. Size()
Warnings
* bont access V[i] if i > V. Size().
valid plants range from V[0,, U.S.Ze()-1]
what if you do?
Might not notice could roud other
verer
nevert. if you read for enough OOB, program will crash! (seg fault)
Similarly, don't call V. pop-back() if V is empty.

Cout Basic exercise: write a fanction which for(i=0; i< V.size(); i+1)

(out << VC;] << ""; allepts a vidor (int) t returns another vector (int) Outline: examine each VI;7 containing only the even #s. Add even ones to a new vector... Hen return E.s. if V=1317[2]8 the new vedor evens(v) = [2]8vector (int) evens (vcdor (int) V) I vector (int) Ej // will hold theevers ... for (size t i = 0; i < V. 5:2e(); i++) (if (V[i] 2, 2 == 0) E.pash_back(VC:3); return Ei More advanced? Or no? Exercise: write a function that takes a vector & reverses the order of the elements. Example: say V = [2]3[4].
After calling reverse(V); V = [4]3[2]

Observation: V should be by reference. void reverse (vector/int) & V); Say n= V. Size() D 1 2 3 N-2 N-1 $0 \iff n-1$ l ←> n-2 $i \iff n - (i+1)$ = (n-1)-ivoid reverse (vector Zint > V) { size_t n = V. size() j for(size t i=0; 12 1/2; i++) { 11 swap VCI3 () V[n-1-i] int t = V[i]i 1[1-1-1] = [1] V[n-i-1] = +; $1 - \frac{1}{2} = \frac{1}{2}$ N=4, N/2=2 <2? <2?

-xercise	siven a veder obil	ntgers tatustudiu E,	
see if	there exist indexes	itj s.t.	
	Mint VEIZ = t.		
Idens?	Los try "Brute force	" well run through	
Idens? Let's try "Brate-Brice" well run through every potential solution to sait anything works. "every potential solution to sait anything works."			
	j	"p, tential soludion" = pain of indexes	
		(i,i), i ti	
	(11) (11)	= raled out.	
	11/1//////		
	011/11/1/11/11/11	VG>+VG]	
$V \subset \mathcal{I} \mathcal{I} + V \subset \mathcal{I}$			
		So could rostrict	
		Sarch space to	
		0< i< j< n	