

Simple Vector Linked List void Linked List < T); add List (const T & data) & Lisk mendi temp=front; end = temp; temp=femp > limkPtn; 3 while (temp != Null); link add = new Lihh; add > data=data; add > Link Ptr = Null; end > Link Ptn = add; 06+501+0a => 06+0a+(N-1+1)0; => (06+0a)+0:(N)  $> C_0 + C_1 N = f(N)$ => (FCN) = O(N)) × on average

Optimized Simple Vector Push it (arraySize == maxSize) { maxSize \*= 27 T \* naptr; try & naptr = new T[maxSize]; catch (bad-alloc) & mem Error (); for lint count=0; count < array Size; count +) naptr(count) = aptr(count); naptr Larray Sizett) = val; Letete ( ) aptr's aptr=0; aptr=naptr; Jon average aptr Carray SizeH]=val; F(N)=O(N) was as erage.