



INFINITY.UZ

PYTHON DA LINKED LIST

Created by: Alimardon Boqijonov

DARS TARTIBI

- O1** LINKEDLIST NIMA?
 - O2** LINKEDLIST RASMLARDA
 - O3** PYTHONDA LINKEDLIST KODI
 - O4** LINKEDLIST VA LIST FARQI
 - O5** LEETCODE
 - O6** UY ISHI
-  INFIN1TY.UZ

LINKED LISTS

- LINKED LISTS – bu ketma-ketligi xotiradagi joylashuviga bog'liq bo'limgan chiziqli ma'lumotlar to'plami
- Ro'yxatning har bir elementi keyingi elementga ishora qiladi

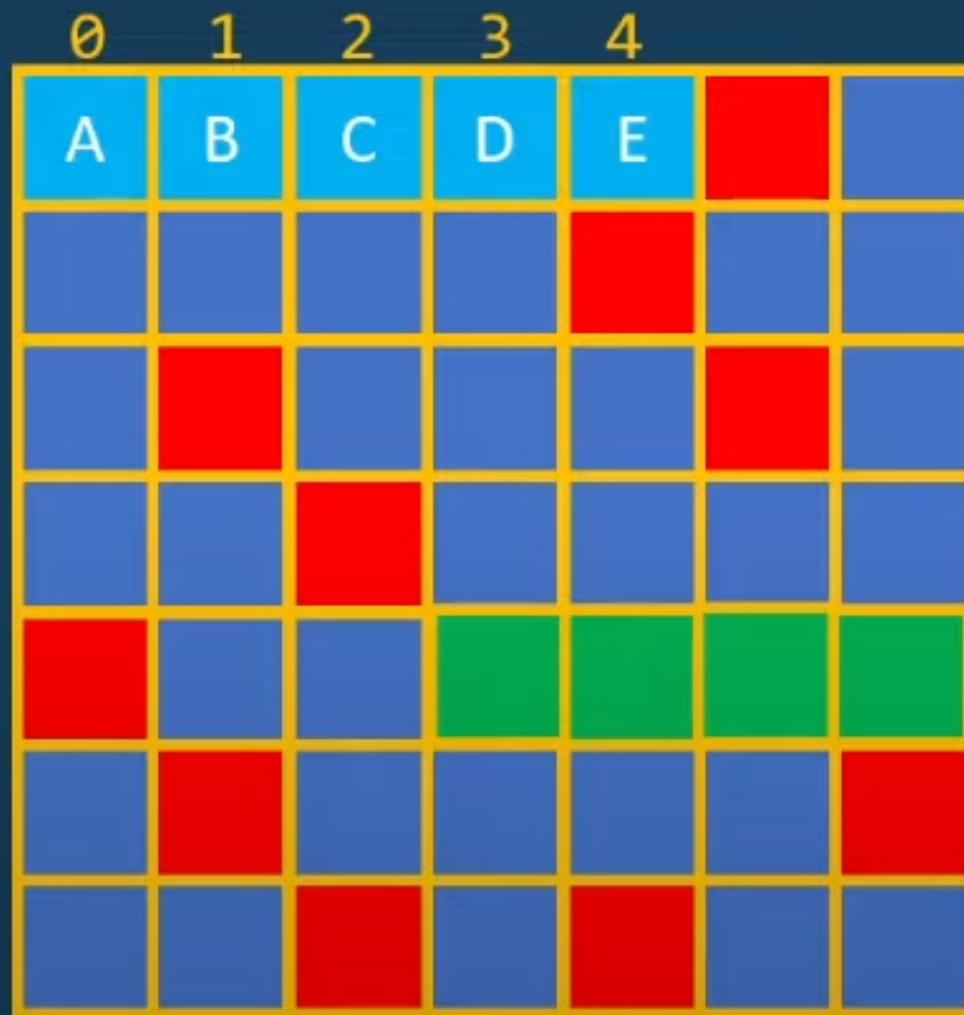
LINKED LISTS

- LINKED LISTS – bu ketma-ketligi xotiradagi joylashuviga bog'liq bo'limgan chiziqli ma'lumotlar to'plami
- Ro'yxatning har bir elementi keyingi elementga ishora qiladi
- Ma'lumotlar tuzilmasi sifatida LL ni bir-biriga bog'langan tugunlar ko'rinishida tasavvur qilamiz
- Har bir tugun o'z qiymatini va keyingi element manzilini saqlaydi

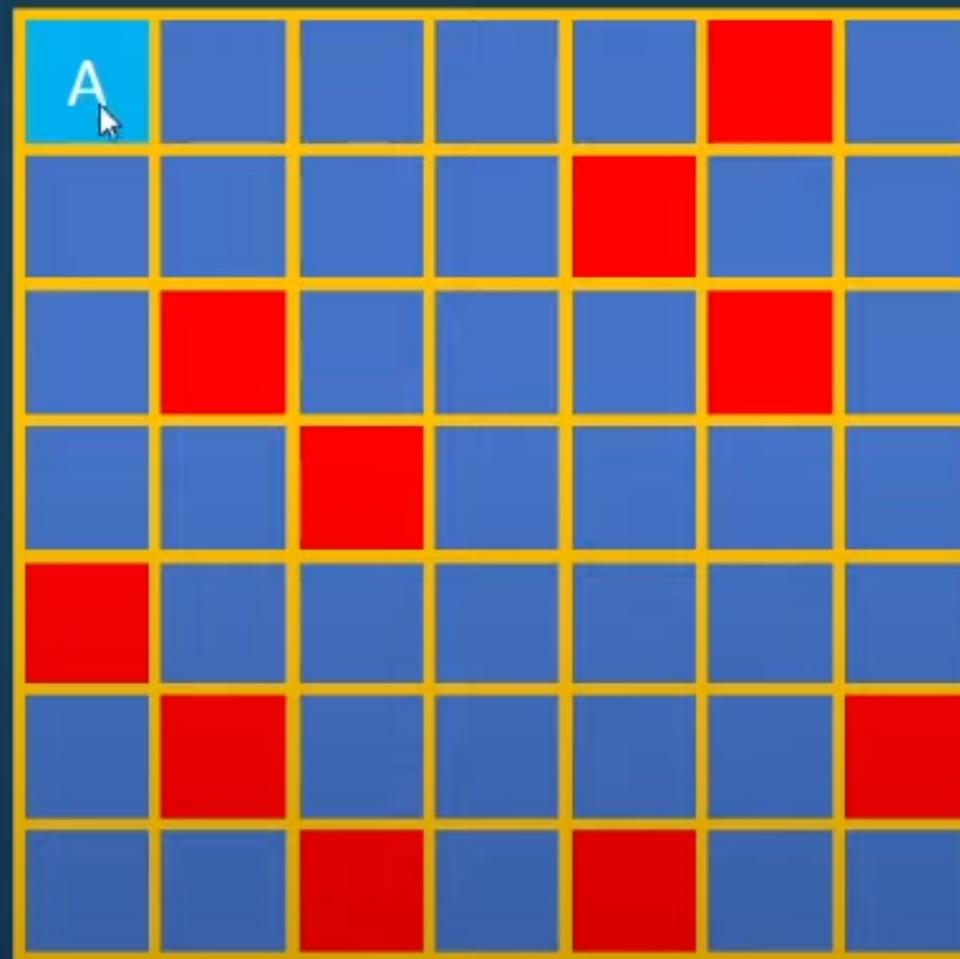


LINKED LISTS – BOG'LANGAN RO'YXATLAR

ARRAY

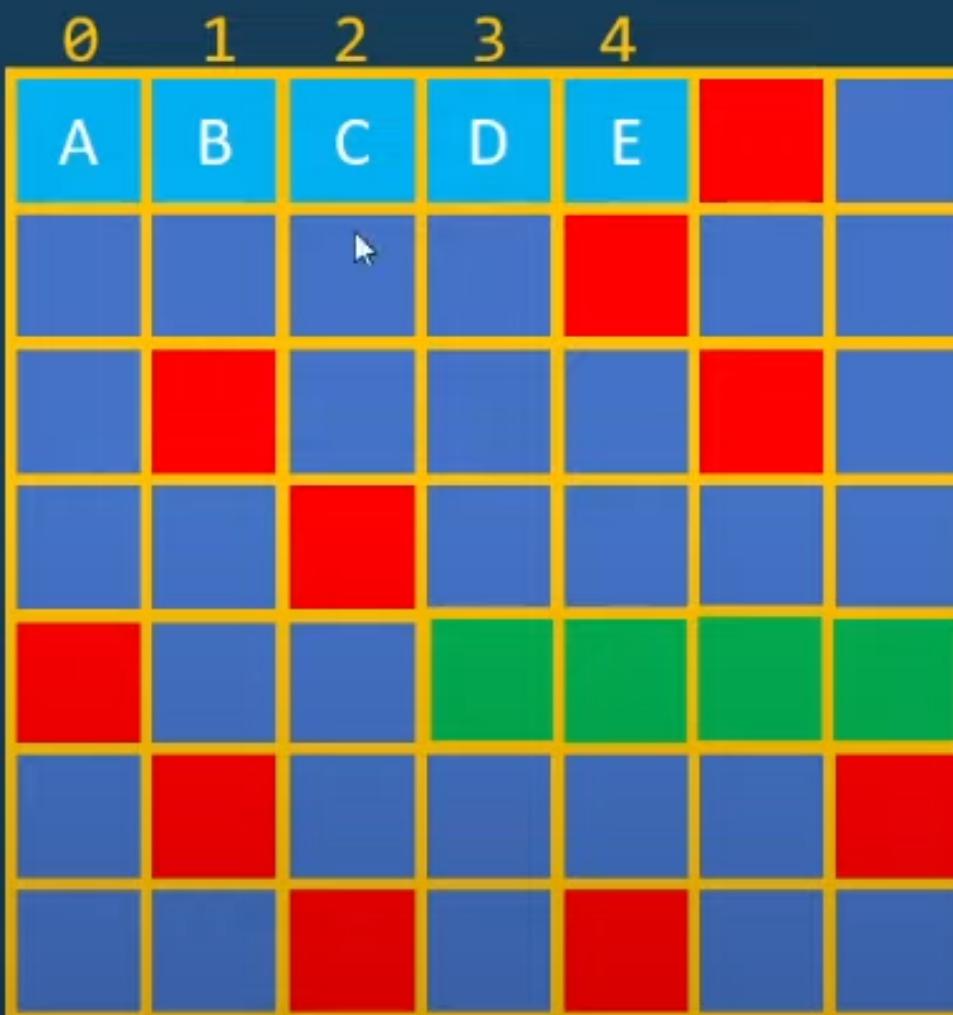


LINKED LIST

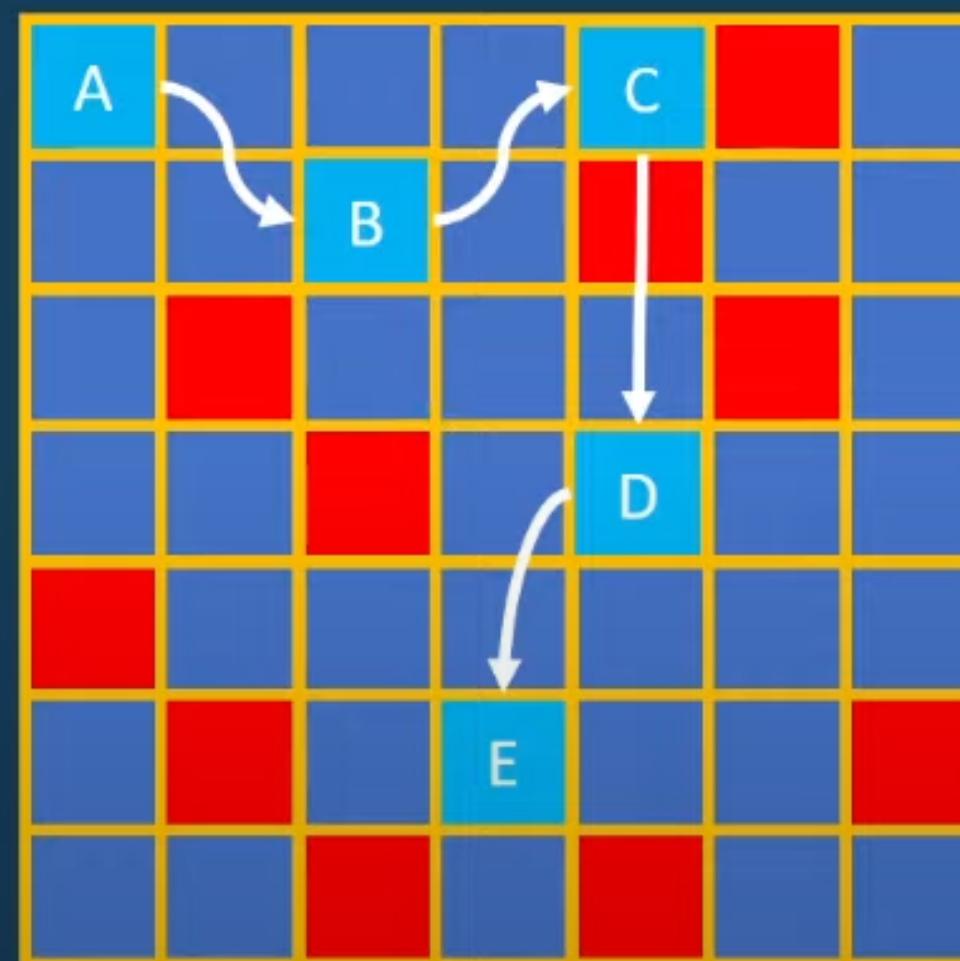


LINKED LISTS – BOG'LANGAN RO'YXATLAR

ARRAY



LINKED LIST



ELEMENT QO'SHISH

CONCEPT



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis vulputate nulla at ante rhoncus, vel efficitur felis condimentum. Proin odio odio.

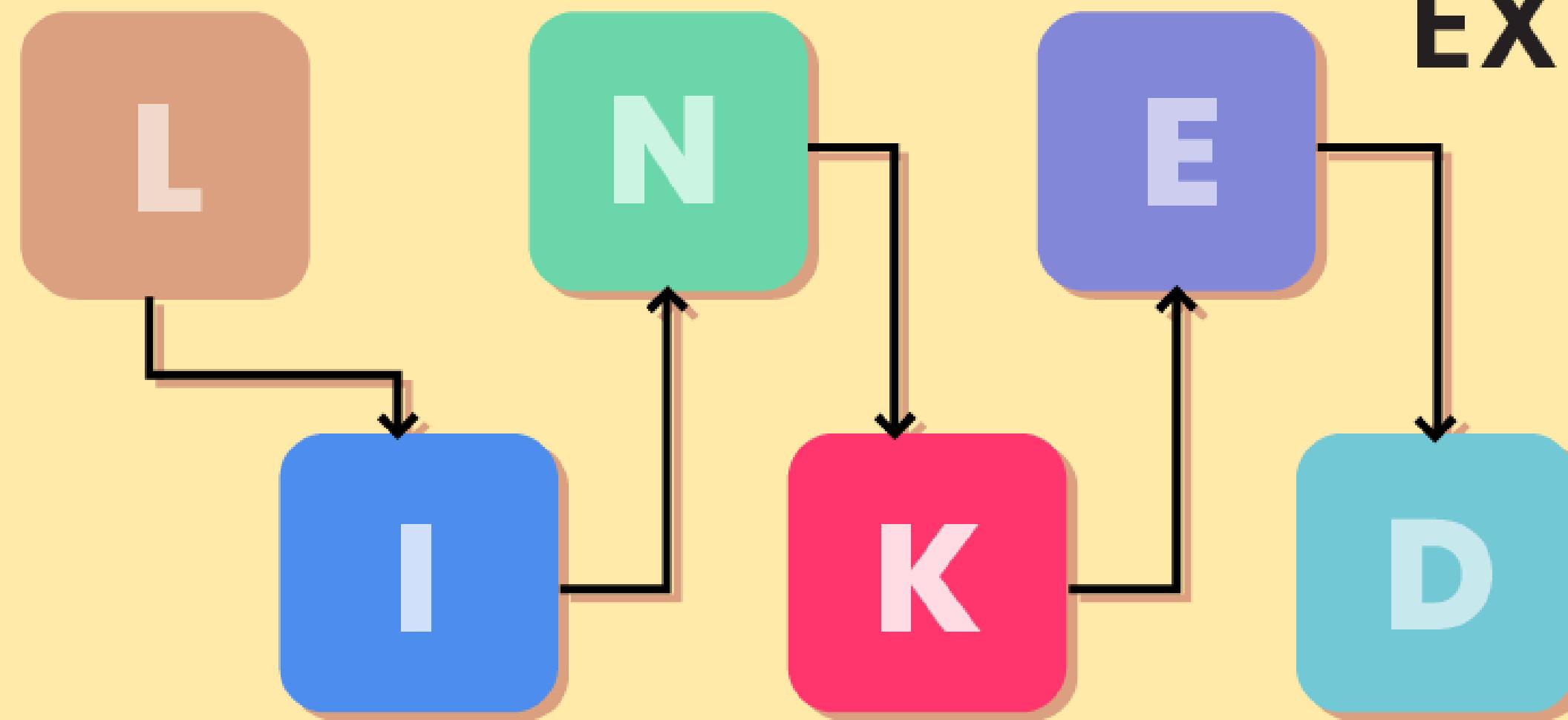


Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis vulputate nulla at ante rhoncus, vel efficitur felis condimentum. Proin odio odio.

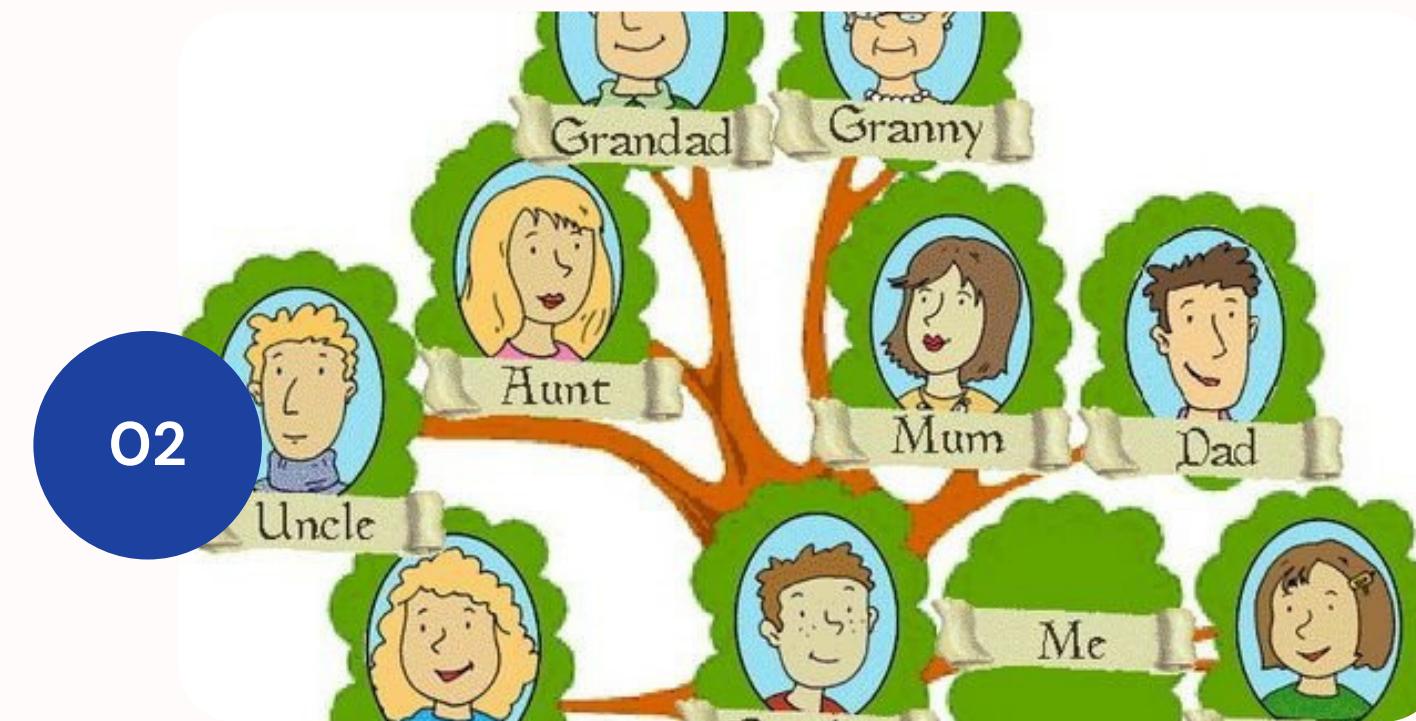


LINKED LIST

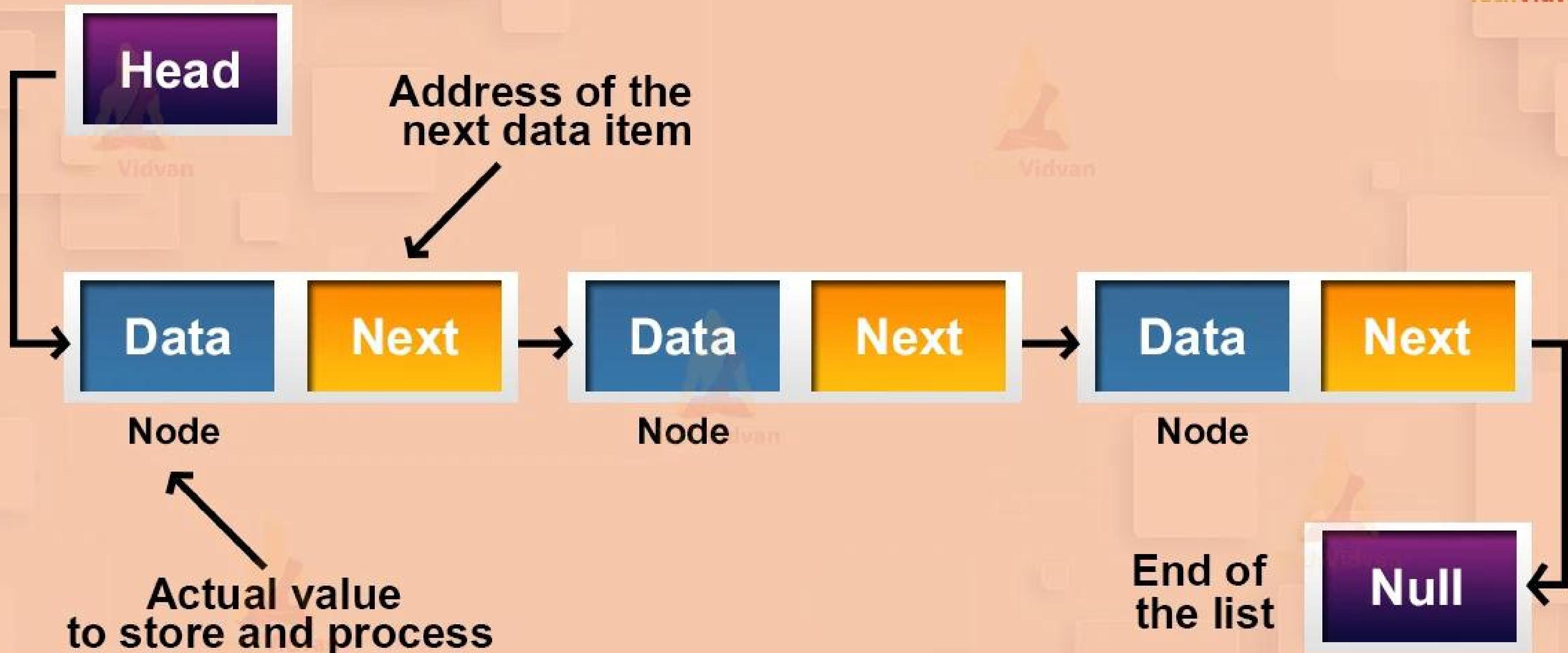
EXPLAINED



LINKED LIST



Linked list in Data Structure



LINKED LISTS TURLARI

SINGLY LINKED LISTS – BIR TOMONLAMA RO'YXAT



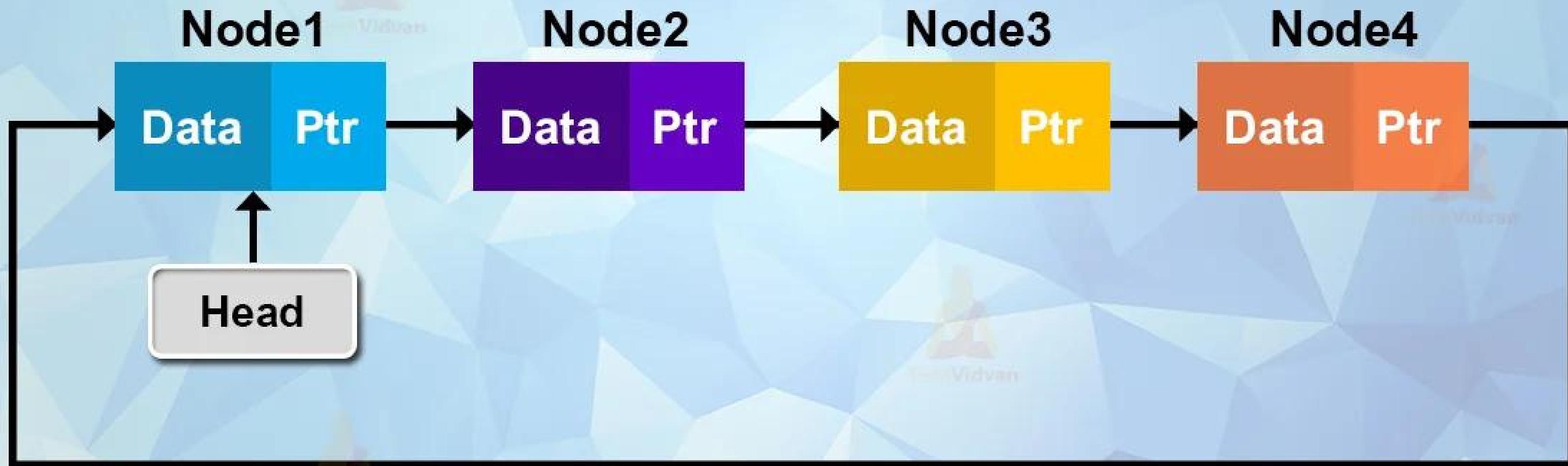
CIRCULAR LINKED LISTS – AYLANA RO'YXAT



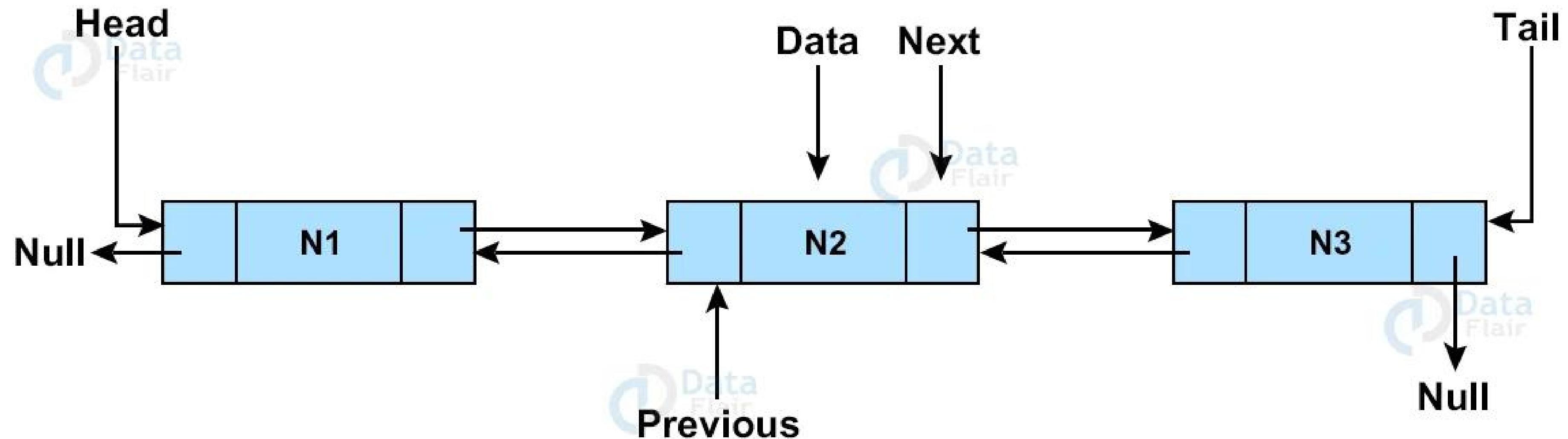
DOUBLY LINKED LISTS – IKKI TOMONLAMA RO'YXAT



Circular linked list in Data Structure

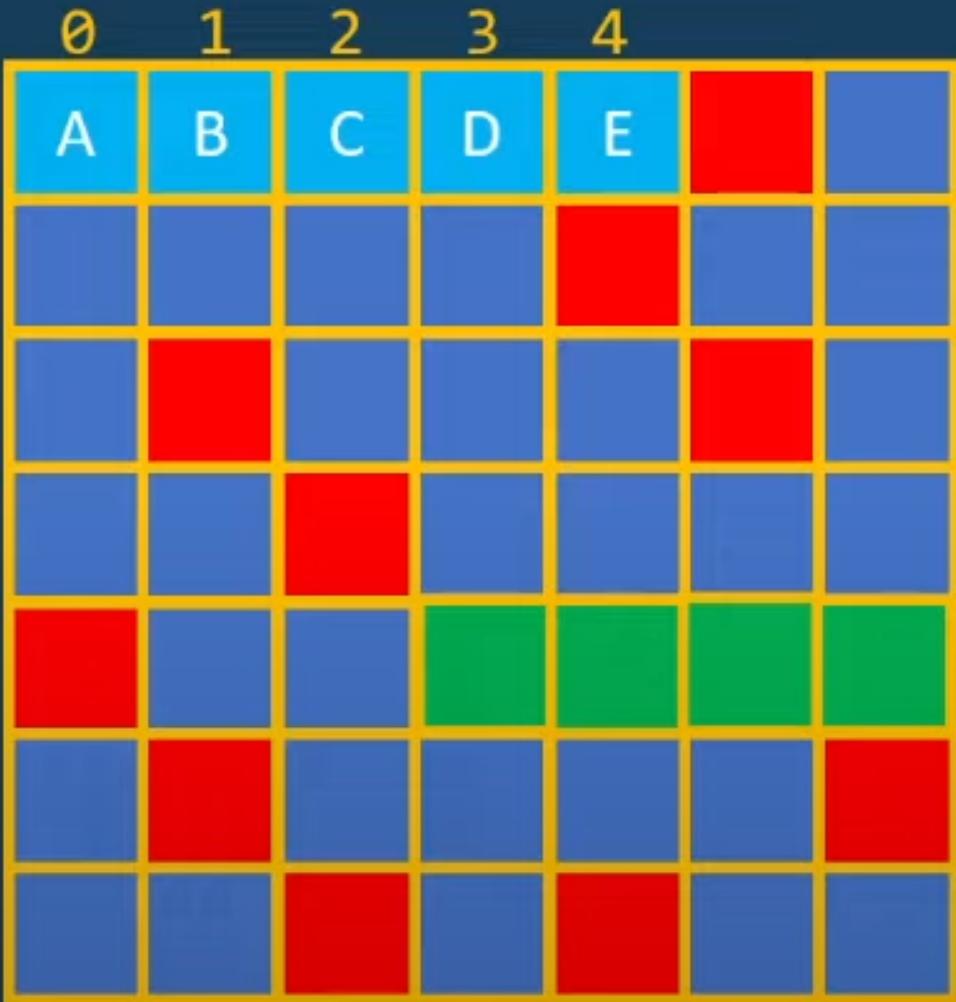


Duble LinkedList



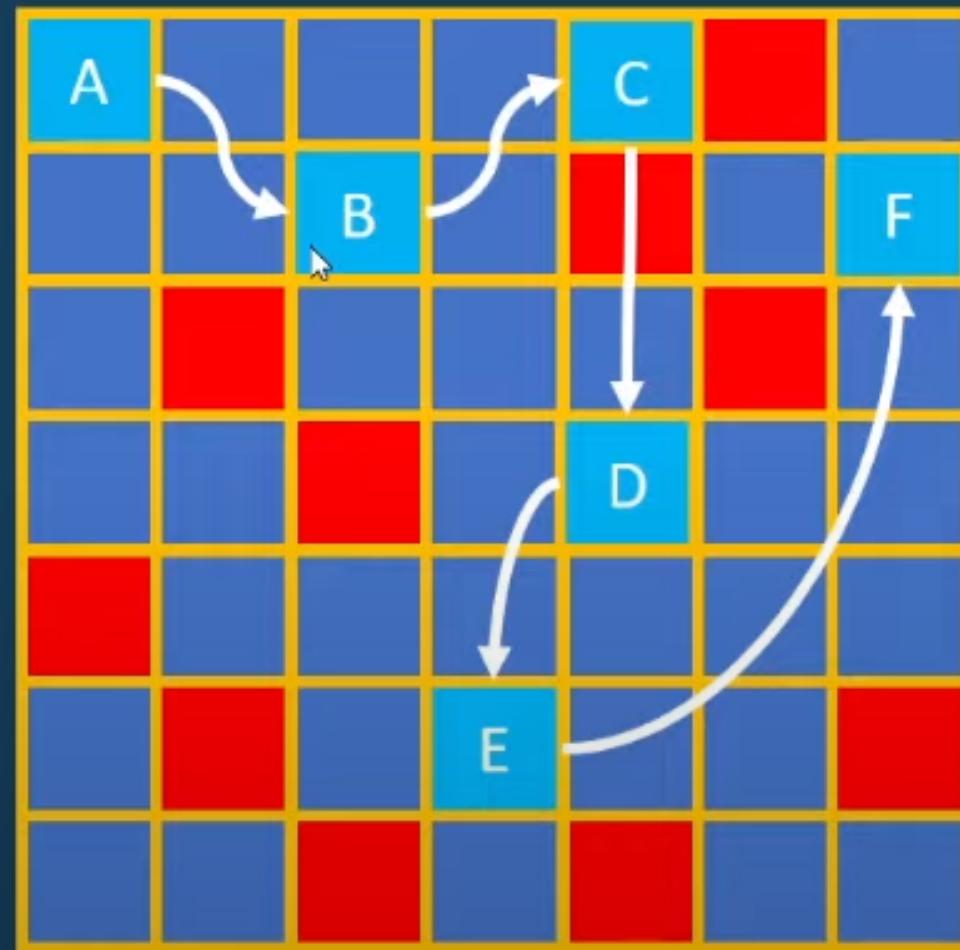
ARRAYS VS. LINKED LISTS

ARRAY



	ARRAY	LINKED LISTS
O'QISH	$O(1)$	$O(n)$
QO'SHISH	$O(n)$	$O(1)$
O'CHIRISH	$O(n)$	$O(1)$

LINKED LIST



ARRAYS VS. LINKED LISTS

	ARRAYS	LINKED LISTS
AFZALLIKLARI	<ul style="list-style-type: none">• Tez o'qish/qidirish• Har bir element kamroq xotira egallaydi	<ul style="list-style-type: none">• Tez yozish/o'chirish• O'zgaruvchan hajmga ega• Xotiradan samarali foydalanish
KAMLCHILIKLARI	<ul style="list-style-type: none">• Sekin qo'shish/o'chirish• O'zgarmas hajm (hajm o'zgartirish "qimmat")• Xotiradan samarasiz foydalanish	<ul style="list-style-type: none">• Sekin qidirish• Har bir tugun xotirada ko'proq joy egallaydi (qiymat+keyingi tugun manzili)

THANK'S FOR WATCHING

