```
type Item = (<A as Iterator>::Item, <B as Iterator>::Item)
The type of the elements being iterated over.
fn next(&mut self) -> Option<<Zip<A, B> as Iterator>::Item>
Advances the iterator and returns the next value, Read more
fn size hint(&self) -> (usize, Option(usize>)
Returns the bounds on the remaining length of the ingrator, Read more
```

fn nth(&mut self, n: usize) -> Option <Zip A. B> as Iterator>::Item>

Returns the nth element of the iterator, Read more

```
fn fold<Acc. F>(self. init: Acc. f: F)
where
   F: FnMut(Acc. <7in<A. B> as Iterator>::Item) -> Acc.
```

Folds every element into an accumulator by applying an operation, returning the final result.

```
fn next chunk<const N: usize>(
    &mut self
) -> Result<[Self::Item: N]. IntoIter<Self::Item. N>>
where
```

This is a nightly-only experimental APL (iter next chunk #98326)

Advances the iterator and returns an array containing the next N values. Read more

```
fn count(self) -> usize
where
   Self: Sized.
```

Self: Sized.

Read more

Consumes the iterator, counting the number of iterations and returning it, Read more

```
fn last(self) -> Option<Self::Item>
where
   Self: Sized.
```

Consumes the iterator, returning the last element. Read more

```
fn advance_by(&mut self, n: usize) -> Result<(), NonZeroUsize>
```

This is a nightly-only experimental API. (iter\_advance\_by #77404)

Advances the iterator by n elements, Read more

```
fn step_by(self, step: usize) -> StepBy<Self> (i)
```

```
Creates an iterator starting at the same point, but stepping by the given amount at each iteration.
```

Self: Sized,

```
IntoIterator>::IntoIter>
                       fn chain<U>(self, other: U)
                       -> Chain<Self,
                          <U as
```

Takes two iterators and creates a new iterator over both in sequence. Read more

U: IntoIterator<Item = Self::Item>,

Self: Sized,

```
fn zip<U>(self, other: U) -> Zip<Self, <U as IntoIterator>::IntoIter>
```

```
Self: Sized,
```

Zips up' two iterators into a single iterator of pairs. Read more

```
fn intersperse_with<G>(self, separator: G) -> IntersperseWith<Self, G>
```

```
self: Sized,
G: FnMut() -> Self::Item,
```

This is a nightly-only experimental APL (iter\_intersperse #79524)

the original iterator. Read more Creates a new iterator which places an item generated by separator between adjacent items of

```
fn map<B, F>(self, f: F) -> Map<Self, F> ①
```

Self: Sized,
F: FnMut(Self::Item) -> B,

Takes a closure and creates an iterator which calls that closure on each element. Read more

```
fn for_each<F>(self, f: F)
                          Self: Sized,
F: FnMut(Self::Item),
```

Calls a closure on each element of an iterator. Read more

```
where
                       fn filter<P>(self, predicate: P) -> Filter<Self, P> ①
```

P: FnMut(&Self::Item) -> bool,

```
P: FnMut(Self::Item) -> Option(B>,
                                                                       'pazis :ilas
                                                                                   where
             tn map_while<8, P>(self, predicate: P) -> MapWhile<Self, P> (j)
· 0725.1
                       Creates an iterator that yields elements based on a predicate. Read more
                                                    P: FnMut(&Self::Item) -> bool,
                                                                       'pazis :ilas
                                                                                   where
              fn take_while<P>(self, predicate: P) -> TakeWhile<Self, P> (j)
                      Creates an iterator that skips elements based on a predicate. Read more
                                                    P: FnMut(&Self::Item) -> bool,
                                                                       Self: Sized,
                                                                                   where
              fn skip_while<P>(self, predicate: P) -> SkipWhile<Self, P> (i)
  of the iterator without consuming it. See their documentation for more information. Read more
 Creates an iterator which can use the peek and peek_mut methods to look at the next element
                                                                       'pazis :ilas
                                                                                   wnere
                                          fu peekable(self) -> Peekable<Self> ()
   Creates an iterator which gives the current iteration count as well as the next value. Read more
                                                                       'pazis :ilas
                                                                                   where
                                        fn enumerate(self) -> Enumerate<Self> (i)
                                     Creates an iterator that both filters and maps. Read more
                                                F: FnMut(Self::Item) -> Option(B>,
                                                                       ,bezic : ifsed,
                                                                                   where
                    fn filter_map<B, F>(self, f: F) -> FilterMap<Self, F> (i)
 Creates an iterator which uses a closure to determine it an element should be yielded. Read more
```

,besit: Sized,

wnere Self: Sized,

Creates an iterator that skips the first n elements. Read more fn take(self, n: usize) -> Take<Self> ()

tu skip(self, n: usize) -> Skip<Self> ()

Creates an iterator that both yields elements based on a predicate and maps, kead more