```
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 jerator. Read more

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

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

```
fn next_chunk<const N: usize>(
    &mut self
) -> Result<[Self::Item; N], IntoIter<Self::Item, N>>
where
   Self: Sized,
```

This is a nightly-only experimental API. (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.
```

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 bv(self, step: usize) -> StepBv<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
```

toIterator>::IntoIter> ①
ere
Self: Sized,

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

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

```
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)
```

F: FnMut(Self::Item),

Self: Sized,

```
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,
```

Creates an iterator which uses a closure to determine if an element should be yielded. Read more

```
where
fn filter_map<B, F>(self, f: F) -> FilterMap<Self, F> (i)
```

```
F: FnMut(Self::Item) -> Option<B>,
                        , bezic : fised,
```

Creates an iterator that both filters and maps. Read more

```
fn enumerate(self) -> Enumerate<Self> (i)
```

```
, bezic : iJse
            where
```

Creates an iterator which gives the current iteration count as well as the next value. Read more

```
where
fn peekable(self) -> Peekable<Self> ()
```

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

```
,bezic :lJec
                                                            where
fn skip_while<P>(self, predicate: P) -> SkipWhile<Self, P> (i)
```

```
Creates an iterator that skips elements based on a predicate. Read more
```

fn take_while<P>(self, predicate: P) -> TakeWhile<Self, P> (i)

```
, bezic : fised,
              where
```

Creates an iterator that yields elements based on a predicate. Read more

```
fn map_while<B, P>(self, predicate: P) -> MapWhile<Self, P> ()
· 0.72.1
```

```
'pazis :ilas
           where
```

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

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

, bezic : fised,

Creates an iterator that both yields elements based on a predicate and maps. Read more P: FnMut(Self::Item) -> Option,

```
where
fu skip(self, n: usize) -> Skip<Self> ()
```

```
'pazis :ilas
```

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

```
, beart : 11se
            where
```