



## Trait `core::cmp::PartialOrd`

### Trait `PartialOrd`

#### Required Methods

`partial_cmp`

#### Provided Methods

`lt`

`le`

`gt`

`ge`

#### Implementors

### `core::cmp`

### Structs

`Reverse`

### Enums

`Ordering`

### Traits

`Eq`

`Ord`

`PartialEq`

`PartialOrd`

### Functions

`max`

`min`

Trait for values that can be compared for a sort-order.

The comparison must satisfy, for all `a`, `b` and `c`:

- antisymmetry: if `a < b` then `!(a > b)`, as well as `a > b` implying `!(a < b)`; and
- transitivity: `a < b` and `b < c` implies `a < c`. The same must hold for both `==` and `>`.

Note that these requirements mean that the trait itself must be implemented symmetrically and transitively: if `T: PartialOrd<U>` and `U: PartialOrd<V>` then `U: PartialOrd<T>` and `T: PartialOrd<V>`.

### Derivable

This trait can be used with `#[derive]`. When `derive`d on structs, it will produce a lexicographic ordering based on the top-to-bottom declaration order of the struct's members. When `derive`d on enums, variants are ordered by their top-to-bottom declaration order.

### How can I implement `PartialOrd`?

`PartialOrd` only requires implementation of the `partial_cmp` method, with the others generated from default implementations.

However it remains possible to implement the others separately for types which do not have a total order. For example, for floating point numbers, `NaN < 0 == false` and `NaN >= 0 == false` (cf. IEEE 754-2008 section 5.11).

`PartialOrd` requires your type to be `PartialEq`.

Implementations of `PartialEq`, `PartialOrd`, and `Ord` *must* agree with each other. It's easy to accidentally make them disagree by deriving some of the traits and manually implementing others.

If your type is `Ord`, you can implement `partial_cmp()` by using `cmp()`:

```
use std::cmp::Ordering;

#[derive(Eq)]
struct Person {
    id: u32,
    name: String,
    height: u32,
}

impl PartialOrd for Person {
    fn partial_cmp(&self, other: &Person) -> Option<Ordering> {
        Some(self.cmp(other))
    }
}

impl Ord for Person {
    fn cmp(&self, other: &Person) -> Ordering {
        self.height.cmp(&other.height)
    }
}

impl PartialEq for Person {
    fn eq(&self, other: &Person) -> bool {
        self.height == other.height
    }
}
```

Run

You may also find it useful to use `partial_cmp()` on your type's fields. Here is an example of `Person` types who have a floating-point `height` field that is the only field to be used for sorting:

```
use std::cmp::Ordering;

struct Person {
    id: u32,
```

Run



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```
name: String,
height: f64,
}

impl PartialOrd for Person {
    fn partial_cmp(&self, other: &Person) -> Option<Ordering> {
        self.height.partial_cmp(&other.height)
    }
}

impl PartialEq for Person {
    fn eq(&self, other: &Person) -> bool {
        self.height == other.height
    }
}
```

Examples

```
let x : u32 = 0;
let y : u32 = 1;

assert_eq!(x < y, true);
assert_eq!(x.lt(&y), true);
```

Run

Required Methods

fn partial\_cmp(&self, other: &Rhs) -> Option<Ordering>

This method returns an ordering between self and other values if one exists.

Examples

```
use std::cmp::Ordering;

let result = 1.0.partial_cmp(&2.0);
assert_eq!(result, Some(Ordering::Less));

let result = 1.0.partial_cmp(&1.0);
assert_eq!(result, Some(Ordering::Equal));

let result = 2.0.partial_cmp(&1.0);
assert_eq!(result, Some(Ordering::Greater));
```

When comparison is impossible:

```
let result = std::f64::NAN.partial_cmp(&1.0);
assert_eq!(result, None);
```

Run

Provided Methods

fn lt(&self, other: &Rhs) -> bool

This method tests less than (for self and other) and is used by the < operator.

Examples

```
let result = 1.0 < 2.0;
assert_eq!(result, true);

let result = 2.0 < 1.0;
assert_eq!(result, false);
```

fn le(&self, other: &Rhs) -> bool

This method tests less than or equal to (for self and other) and is used by the <= operator.

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Examples

```
let result = 1.0 <= 2.0;
assert_eq!(result, true);

let result = 2.0 <= 2.0;
assert_eq!(result, true);
```

Run

fn gt(&self, other: &Rhs) -> bool

This method tests greater than (for self and other ) and is used by the > operator.

Examples

```
let result = 1.0 > 2.0;
assert_eq!(result, false);

let result = 2.0 > 2.0;
assert_eq!(result, false);
```

Run

fn ge(&self, other: &Rhs) -> bool

This method tests greater than or equal to (for self and other ) and is used by the >= operator.

Examples

```
let result = 2.0 >= 1.0;
assert_eq!(result, true);

let result = 2.0 >= 2.0;
assert_eq!(result, true);
```

Run

Implementors

impl PartialOrd for NonZeroU8	[src]
impl PartialOrd for NonZeroU16	[src]
impl PartialOrd for NonZeroU32	[src]
impl PartialOrd for NonZeroU64	[src]
impl PartialOrd for NonZeroU128	[src]
impl PartialOrd for NonZeroUsize	[src]
impl PartialOrd for NonZeroI8	[src]
impl PartialOrd for NonZeroI16	[src]
impl PartialOrd for NonZeroI32	[src]
impl PartialOrd for NonZeroI64	[src]
impl PartialOrd for NonZeroI128	[src]
impl PartialOrd for NonZeroIsize	[src]
impl<T: PartialOrd> PartialOrd for Wrapping<T>	[src]
impl<T: PartialOrd> PartialOrd for ManuallyDrop<T>	[src]
impl<T: PartialOrd + Zeroable> PartialOrd for NonZero<T>	[src]
impl<Ret> PartialOrd for fn() -> Ret	[src]
impl<Ret> PartialOrd for extern "C" fn() -> Ret	[src]
impl<Ret> PartialOrd for unsafe fn() -> Ret	[src]



## Trait PartialOrd

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### Implementors

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```
impl<Ret> PartialOrd for unsafe extern "C" fn() -> Ret [src]

impl<Ret, A> PartialOrd for fn(_: A) -> Ret [src]

impl<Ret, A> PartialOrd for extern "C" fn(_: A) -> Ret [src]

impl<Ret, A> PartialOrd for extern "C" fn(_: A, ...) -> Ret [src]

impl<Ret, A> PartialOrd for unsafe fn(_: A) -> Ret [src]

impl<Ret, A> PartialOrd for unsafe extern "C" fn(_: A) -> Ret [src]

impl<Ret, A> PartialOrd for unsafe extern "C" fn(_: A, ...) -> Ret [src]

impl<Ret, A, B> PartialOrd for fn(_: A, _: B) -> Ret [src]

impl<Ret, A, B> PartialOrd for extern "C" fn(_: A, _: B) -> Ret [src]

impl<Ret, A, B> PartialOrd for extern "C" fn(_: A, _: B, ...) -> Ret [src]

impl<Ret, A, B> PartialOrd for unsafe fn(_: A, _: B) -> Ret [src]

impl<Ret, A, B> PartialOrd for unsafe extern "C" fn(_: A, _: B) -> Ret [src]

impl<Ret, A, B> PartialOrd for unsafe extern "C" fn(_: A, _: B, ...) -> Ret [src]

impl<Ret, A, B, C> PartialOrd for fn(_: A, _: B, _: C) -> Ret [src]

impl<Ret, A, B, C> PartialOrd for extern "C" fn(_: A, _: B, _: C) -> Ret [src]

impl<Ret, A, B, C> PartialOrd for extern "C" fn(_: A, _: B, _: C, ...) -> Ret [src]

impl<Ret, A, B, C> PartialOrd for unsafe fn(_: A, _: B, _: C) -> Ret [src]

impl<Ret, A, B, C> PartialOrd for unsafe extern "C" fn(_: A, _: B, _: C) -> Ret [src]

impl<Ret, A, B, C> PartialOrd for unsafe extern "C" fn(_: A, _: B, _: C, ...) -> Ret [src]

impl<Ret, A, B, C, D> PartialOrd for fn(_: A, _: B, _: C, _: D) -> Ret [src]

impl<Ret, A, B, C, D> PartialOrd for extern "C" fn(_: A, _: B, _: C, _: D) -> Ret [src]

impl<Ret, A, B, C, D> PartialOrd for extern "C" fn(_: A, _: B, _: C, _: D, ...) -> Ret [src]

impl<Ret, A, B, C, D> PartialOrd for unsafe fn(_: A, _: B, _: C, _: D) -> Ret [src]

impl<Ret, A, B, C, D> PartialOrd for unsafe extern "C" fn(_: A, _: B, _: C, _: D) -> Ret [src]

impl<Ret, A, B, C, D> PartialOrd for unsafe extern "C" fn(_: A, _: B, _: C, _: D, ...) -> Ret [src]

impl<Ret, A, B, C, D, E> PartialOrd for fn(_: A, _: B, _: C, _: D, _: E) -> Ret [src]

impl<Ret, A, B, C, D, E> PartialOrd for extern "C" fn(_: A, _: B, _: C, _: D, _: E) -> Ret [src]

impl<Ret, A, B, C, D, E> PartialOrd for extern "C" fn(_: A, _: B, _: C, _: D, _: E, ...) -> Ret [src]

impl<Ret, A, B, C, D, E> PartialOrd for unsafe fn(_: A, _: B, _: C, _: D, _: E) -> Ret [src]

impl<Ret, A, B, C, D, E> PartialOrd for unsafe extern "C" fn(_: A, _: B, _: C, _: D, _: E) -> Ret [src]

impl<Ret, A, B, C, D, E> PartialOrd for unsafe extern "C" fn(_: A, _: B, _: C, _: D, _: E, ...) -> Ret [src]

impl<Ret, A, B, C, D, E, F> PartialOrd for fn(_: A, _: B, _: C, _: D, _: E, _: F) -> Ret [src]
```



## Trait PartialOrd

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partial\_cmp

### Provided Methods

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### Implementors

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## Functions

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```
impl<Ret, A, B, C, D, E, F> PartialOrd for extern "C" fn(_: A, _: B, _: C, _: D,
_: E, _: F) -> Ret
```

```
impl<Ret, A, B, C, D, E, F> PartialOrd for extern "C" fn(_: A, _: B, _: C, _: D, [src]
_: E, _: F, ...) -> Ret
```

```
impl<Ret, A, B, C, D, E, F> PartialOrd for unsafe fn(_: A, _: B, _: C, _: D, _: [src]
E, _: F) -> Ret
```

```
impl<Ret, A, B, C, D, E, F> PartialOrd for unsafe extern "C" fn(_: A, _: B, _: C, [src]
_: D, _: E, _: F) -> Ret
```

```
impl<Ret, A, B, C, D, E, F> PartialOrd for unsafe extern "C" fn(_: A, _: B, _: C, [src]
_: D, _: E, _: F, ...) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G> PartialOrd for fn(_: A, _: B, _: C, _: D, _: E, _: [src]
F, _: G) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G> PartialOrd for extern "C" fn(_: A, _: B, _: C, _: [src]
D, _: E, _: F, _: G) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G> PartialOrd for extern "C" fn(_: A, _: B, _: C, _: [src]
D, _: E, _: F, _: G, ...) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G> PartialOrd for unsafe fn(_: A, _: B, _: C, _: D, [src]
_: E, _: F, _: G) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G> PartialOrd for unsafe extern "C" fn(_: A, _: B, _: [src]
C, _: D, _: E, _: F, _: G) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G> PartialOrd for unsafe extern "C" fn(_: A, _: B, _: [src]
C, _: D, _: E, _: F, _: G, ...) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G, H> PartialOrd for fn(_: A, _: B, _: C, _: D, _: E, [src]
_: F, _: G, _: H) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G, H> PartialOrd for extern "C" fn(_: A, _: B, _: [src]
_: D, _: E, _: F, _: G, _: H) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G, H> PartialOrd for extern "C" fn(_: A, _: B, _: [src]
_: D, _: E, _: F, _: G, _: H, ...) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G, H> PartialOrd for unsafe fn(_: A, _: B, _: C, _: [src]
D, _: E, _: F, _: G, _: H) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G, H> PartialOrd for unsafe extern "C" fn(_: A, _: B, [src]
_: C, _: D, _: E, _: F, _: G, _: H) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G, H> PartialOrd for unsafe extern "C" fn(_: A, _: B, [src]
_: C, _: D, _: E, _: F, _: G, _: H, ...) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G, H, I> PartialOrd for fn(_: A, _: B, _: C, _: D, _: [src]
E, _: F, _: G, _: H, _: I) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G, H, I> PartialOrd for extern "C" fn(_: A, _: B, _: [src]
C, _: D, _: E, _: F, _: G, _: H, _: I) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G, H, I> PartialOrd for extern "C" fn(_: A, _: B, _: [src]
C, _: D, _: E, _: F, _: G, _: H, _: I, ...) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G, H, I> PartialOrd for unsafe fn(_: A, _: B, _: C, [src]
_: D, _: E, _: F, _: G, _: H, _: I) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G, H, I> PartialOrd for unsafe extern "C" fn(_: A, _: [src]
B, _: C, _: D, _: E, _: F, _: G, _: H, _: I) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G, H, I> PartialOrd for unsafe extern "C" fn(_: A, _: [src]
B, _: C, _: D, _: E, _: F, _: G, _: H, _: I, ...) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G, H, I, J> PartialOrd for fn(_: A, _: B, _: C, _: D, [src]
_: E, _: F, _: G, _: H, _: I, _: J) -> Ret
```

```
impl<Ret, A, B, C, D, E, F, G, H, I, J> PartialOrd for extern "C" fn(_: A, _: B, [src]
_: C, _: D, _: E, _: F, _: G, _: H, _: I, _: J) -> Ret
```



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partial\_cmp

### Provided Methods

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## core::cmp

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```
impl<Ret, A, B, C, D, E, F, G, H, I, J> PartialOrd for extern "C" fn(_: A, _: B, [src]
_: C, _: D, _: E, _: F, _: G, _: H, _: I, _: J, ...) -> Ret

impl<Ret, A, B, C, D, E, F, G, H, I, J> PartialOrd for unsafe fn(_: A, _: B, [src]
C, _: D, _: E, _: F, _: G, _: H, _: I, _: J) -> Ret

impl<Ret, A, B, C, D, E, F, G, H, I, J> PartialOrd for unsafe extern "C" fn(_: A, [src]
_: B, _: C, _: D, _: E, _: F, _: G, _: H, _: I, _: J) -> Ret

impl<Ret, A, B, C, D, E, F, G, H, I, J> PartialOrd for unsafe extern "C" fn(_: A, [src]
_: B, _: C, _: D, _: E, _: F, _: G, _: H, _: I, _: J, ...) -> Ret

impl<Ret, A, B, C, D, E, F, G, H, I, J, K> PartialOrd for fn(_: A, _: B, _: C, [src]
D, _: E, _: F, _: G, _: H, _: I, _: J, _: K) -> Ret

impl<Ret, A, B, C, D, E, F, G, H, I, J, K> PartialOrd for extern "C" fn(_: A, [src]
B, _: C, _: D, _: E, _: F, _: G, _: H, _: I, _: J, _: K) -> Ret

impl<Ret, A, B, C, D, E, F, G, H, I, J, K> PartialOrd for extern "C" fn(_: A, [src]
B, _: C, _: D, _: E, _: F, _: G, _: H, _: I, _: J, _: K, ...) -> Ret

impl<Ret, A, B, C, D, E, F, G, H, I, J, K> PartialOrd for unsafe fn(_: A, [src]
_: C, _: D, _: E, _: F, _: G, _: H, _: I, _: J, _: K) -> Ret

impl<Ret, A, B, C, D, E, F, G, H, I, J, K> PartialOrd for unsafe extern "C" fn(_: [src]
A, _: B, _: C, _: D, _: E, _: F, _: G, _: H, _: I, _: J, _: K) -> Ret

impl<Ret, A, B, C, D, E, F, G, H, I, J, K> PartialOrd for unsafe extern "C" fn(_: [src]
A, _: B, _: C, _: D, _: E, _: F, _: G, _: H, _: I, _: J, _: K, ...) -> Ret

impl<Ret, A, B, C, D, E, F, G, H, I, J, K, L> PartialOrd for fn(_: A, [src]
_: D, _: E, _: F, _: G, _: H, _: I, _: J, _: K, _: L) -> Ret

impl<Ret, A, B, C, D, E, F, G, H, I, J, K, L> PartialOrd for extern "C" fn(_: A, [src]
_: B, _: C, _: D, _: E, _: F, _: G, _: H, _: I, _: J, _: K, _: L) -> Ret

impl<Ret, A, B, C, D, E, F, G, H, I, J, K, L> PartialOrd for extern "C" fn(_: A, [src]
_: B, _: C, _: D, _: E, _: F, _: G, _: H, _: I, _: J, _: K, _: L, ...) -> Ret

impl<Ret, A, B, C, D, E, F, G, H, I, J, K, L> PartialOrd for unsafe fn(_: A, [src]
B, _: C, _: D, _: E, _: F, _: G, _: H, _: I, _: J, _: K, _: L) -> Ret

impl<Ret, A, B, C, D, E, F, G, H, I, J, K, L> PartialOrd for unsafe extern "C" [src]
fn(_: A, _: B, _: C, _: D, _: E, _: F, _: G, _: H, _: I, _: J, _: K, _: L) -> Ret

impl<Ret, A, B, C, D, E, F, G, H, I, J, K, L> PartialOrd for unsafe extern "C" [src]
fn(_: A, _: B, _: C, _: D, _: E, _: F, _: G, _: H, _: I, _: J, _: K, _: L, ...)
-> Ret

impl<T: ?Sized> PartialOrd for *const T [src]

impl<T: ?Sized> PartialOrd for *mut T [src]

impl<T: ?Sized> PartialOrd for NonNull<T> [src]

impl<T: ?Sized> PartialOrd for PhantomData<T> [src]

impl<Y: PartialOrd, R: PartialOrd> PartialOrd for GeneratorState<Y, R> [src]

impl PartialOrd for () [src]

impl PartialOrd for bool [src]

impl PartialOrd for f32 [src]

impl PartialOrd for f64 [src]

impl PartialOrd for char [src]

impl PartialOrd for usize [src]

impl PartialOrd for u8 [src]

impl PartialOrd for u16 [src]
```



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<code>impl PartialOrd for u32</code>	<a href="#">[src]</a>
<code>impl PartialOrd for u64</code>	<a href="#">[src]</a>
<code>impl PartialOrd for u128</code>	<a href="#">[src]</a>
<code>impl PartialOrd for isize</code>	<a href="#">[src]</a>
<code>impl PartialOrd for i8</code>	<a href="#">[src]</a>
<code>impl PartialOrd for i16</code>	<a href="#">[src]</a>
<code>impl PartialOrd for i32</code>	<a href="#">[src]</a>
<code>impl PartialOrd for i64</code>	<a href="#">[src]</a>
<code>impl PartialOrd for i128</code>	<a href="#">[src]</a>
<code>impl PartialOrd for !</code>	<a href="#">[src]</a>
<code>impl&lt;'a, 'b, A: ?Sized, B: ?Sized&gt; PartialOrd&lt;&amp;'b B&gt; for &amp;'a A</code> <code>where</code> <code>    A: PartialOrd&lt;B&gt;,</code>	<a href="#">[src]</a>
<code>impl&lt;'a, 'b, A: ?Sized, B: ?Sized&gt; PartialOrd&lt;&amp;'b mut B&gt; for &amp;'a mut A</code> <code>where</code> <code>    A: PartialOrd&lt;B&gt;,</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for Reverse&lt;T&gt;</code>	<a href="#">[src]</a>
<code>impl PartialOrd for Ordering</code>	<a href="#">[src]</a>
<code>impl PartialOrd for TypeId</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 0]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 1]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 2]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 3]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 4]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 5]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 6]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 7]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 8]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 9]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 10]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 11]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 12]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 13]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 14]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 15]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 16]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 17]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 18]</code>	<a href="#">[src]</a>
<code>impl&lt;T: PartialOrd&gt; PartialOrd for [T; 19]</code>	<a href="#">[src]</a>



Trait PartialOrd

Required Methods

partial\_cmp

Provided Methods

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Implementors

core::cmp

Structs

Reverse

Enums

Ordering

Traits

Eq

Ord

PartialEq

PartialOrd

Functions

max

min

```
impl<T: PartialOrd> PartialOrd for [T; 20]
impl<T: PartialOrd> PartialOrd for [T; 21] [src]
impl<T: PartialOrd> PartialOrd for [T; 22] [src]
impl<T: PartialOrd> PartialOrd for [T; 23] [src]
impl<T: PartialOrd> PartialOrd for [T; 24] [src]
impl<T: PartialOrd> PartialOrd for [T; 25] [src]
impl<T: PartialOrd> PartialOrd for [T; 26] [src]
impl<T: PartialOrd> PartialOrd for [T; 27] [src]
impl<T: PartialOrd> PartialOrd for [T; 28] [src]
impl<T: PartialOrd> PartialOrd for [T; 29] [src]
impl<T: PartialOrd> PartialOrd for [T; 30] [src]
impl<T: PartialOrd> PartialOrd for [T; 31] [src]
impl<T: PartialOrd> PartialOrd for [T; 32] [src]
impl<T: PartialOrd + Copy> PartialOrd for Cell<T> [src]
impl<T: ?Sized + PartialOrd> PartialOrd for RefCell<T> [src]
impl<T: PartialOrd> PartialOrd for Option<T> [src]
impl PartialOrd for NoneError [src]
impl<T: PartialOrd, E: PartialOrd> PartialOrd for Result<T, E> [src]
impl<T: PartialOrd> PartialOrd for [T] [src]
impl PartialOrd for str [src]
impl PartialOrd for Error [src]
impl PartialOrd for Duration [src]
impl<A> PartialOrd for (A,) [src]
where
    A: PartialOrd + PartialEq + ?Sized,
impl<A: PartialOrd + PartialEq, B> PartialOrd for (A, B) [src]
where
    B: PartialOrd + PartialEq + ?Sized,
impl<A: PartialOrd + PartialEq, B: PartialOrd + PartialEq, C> PartialOrd for (A, [src]
B, C)
where
    C: PartialOrd + PartialEq + ?Sized,
impl<A: PartialOrd + PartialEq, B: PartialOrd + PartialEq, C: PartialOrd + [src]
PartialEq, D> PartialOrd for (A, B, C, D)
where
    D: PartialOrd + PartialEq + ?Sized,
impl<A: PartialOrd + PartialEq, B: PartialOrd + PartialEq, C: PartialOrd + [src]
PartialEq, D: PartialOrd + PartialEq, E> PartialOrd for (A, B, C, D, E)
where
    E: PartialOrd + PartialEq + ?Sized,
impl<A: PartialOrd + PartialEq, B: PartialOrd + PartialEq, C: PartialOrd + [src]
PartialEq, D: PartialOrd + PartialEq, E: PartialOrd + PartialEq, F> PartialOrd
for (A, B, C, D, E, F)
where
    F: PartialOrd + PartialEq + ?Sized,
impl<A: PartialOrd + PartialEq, B: PartialOrd + PartialEq, C: PartialOrd + [src]
PartialEq, D: PartialOrd + PartialEq, E: PartialOrd + PartialEq, F: PartialOrd +
```





Trait PartialOrd

Required Methods

partial\_cmp

Provided Methods

lt

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Ord

PartialEq

PartialOrd

Functions

max

min

```
PartialEq, G> PartialOrd for (A, B, C, D, E, F, G)
where
    G: PartialOrd + PartialEq + ?Sized,

impl<A: PartialOrd + PartialEq, B: PartialOrd + PartialEq, C: PartialOrd +
PartialEq, D: PartialOrd + PartialEq, E: PartialOrd + PartialEq, F: PartialOrd +
PartialEq, G: PartialOrd + PartialEq, H> PartialOrd for (A, B, C, D, E, F, G, H)
where
    H: PartialOrd + PartialEq + ?Sized,

impl<A: PartialOrd + PartialEq, B: PartialOrd + PartialEq, C: PartialOrd +
PartialEq, D: PartialOrd + PartialEq, E: PartialOrd + PartialEq, F: PartialOrd +
PartialEq, G: PartialOrd + PartialEq, H: PartialOrd + PartialEq, I> PartialOrd
for (A, B, C, D, E, F, G, H, I)
where
    I: PartialOrd + PartialEq + ?Sized,

impl<A: PartialOrd + PartialEq, B: PartialOrd + PartialEq, C: PartialOrd +
PartialEq, D: PartialOrd + PartialEq, E: PartialOrd + PartialEq, F: PartialOrd +
PartialEq, G: PartialOrd + PartialEq, H: PartialOrd + PartialEq, I: PartialOrd +
PartialEq, J> PartialOrd for (A, B, C, D, E, F, G, H, I, J)
where
    J: PartialOrd + PartialEq + ?Sized,

impl<A: PartialOrd + PartialEq, B: PartialOrd + PartialEq, C: PartialOrd +
PartialEq, D: PartialOrd + PartialEq, E: PartialOrd + PartialEq, F: PartialOrd +
PartialEq, G: PartialOrd + PartialEq, H: PartialOrd + PartialEq, I: PartialOrd +
PartialEq, J: PartialOrd + PartialEq, K> PartialOrd for (A, B, C, D, E, F, G, H,
I, J, K)
where
    K: PartialOrd + PartialEq + ?Sized,

impl<A: PartialOrd + PartialEq, B: PartialOrd + PartialEq, C: PartialOrd +
PartialEq, D: PartialOrd + PartialEq, E: PartialOrd + PartialEq, F: PartialOrd +
PartialEq, G: PartialOrd + PartialEq, H: PartialOrd + PartialEq, I: PartialOrd +
PartialEq, J: PartialOrd + PartialEq, K: PartialOrd + PartialEq, L> PartialOrd
for (A, B, C, D, E, F, G, H, I, J, K, L)
where
    L: PartialOrd + PartialEq + ?Sized,

impl PartialOrd for i8x2 [src]

impl PartialOrd for u8x2 [src]

impl PartialOrd for b8x2 [src]

impl PartialOrd for i16x2 [src]

impl PartialOrd for u16x2 [src]

impl PartialOrd for i8x4 [src]

impl PartialOrd for u8x4 [src]

impl PartialOrd for b8x4 [src]

impl PartialOrd for i8x8 [src]

impl PartialOrd for u8x8 [src]

impl PartialOrd for b8x8 [src]

impl PartialOrd for i16x4 [src]

impl PartialOrd for u16x4 [src]

impl PartialOrd for i32x2 [src]

impl PartialOrd for u32x2 [src]

impl PartialOrd for f32x2 [src]

impl PartialOrd for i8x16 [src]
```



Trait PartialOrd

Required Methods

partial\_cmp

Provided Methods

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Implementors

core::cmp

Structs

Reverse

Enums

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Traits

Eq

Ord

PartialEq

PartialOrd

Functions

max

min

impl PartialOrd for <code>u8x16</code>	
impl PartialOrd for <code>b8x16</code>	[src]
impl PartialOrd for <code>i16x8</code>	[src]
impl PartialOrd for <code>u16x8</code>	[src]
impl PartialOrd for <code>i32x4</code>	[src]
impl PartialOrd for <code>u32x4</code>	[src]
impl PartialOrd for <code>f32x4</code>	[src]
impl PartialOrd for <code>i64x2</code>	[src]
impl PartialOrd for <code>u64x2</code>	[src]
impl PartialOrd for <code>f64x2</code>	[src]
impl PartialOrd for <code>i8x32</code>	[src]
impl PartialOrd for <code>u8x32</code>	[src]
impl PartialOrd for <code>b8x32</code>	[src]
impl PartialOrd for <code>i16x16</code>	[src]
impl PartialOrd for <code>u16x16</code>	[src]
impl PartialOrd for <code>i32x8</code>	[src]
impl PartialOrd for <code>u32x8</code>	[src]
impl PartialOrd for <code>f32x8</code>	[src]
impl PartialOrd for <code>i64x4</code>	[src]
impl PartialOrd for <code>u64x4</code>	[src]
impl PartialOrd for <code>f64x4</code>	[src]
impl PartialOrd for <code>i8x64</code>	[src]
impl PartialOrd for <code>u8x64</code>	[src]
impl PartialOrd for <code>b8x64</code>	[src]
impl PartialOrd for <code>i16x32</code>	[src]
impl PartialOrd for <code>u16x32</code>	[src]
impl PartialOrd for <code>i32x16</code>	[src]
impl PartialOrd for <code>u32x16</code>	[src]
impl PartialOrd for <code>f32x16</code>	[src]
impl PartialOrd for <code>i64x8</code>	[src]
impl PartialOrd for <code>u64x8</code>	[src]
impl PartialOrd for <code>f64x8</code>	[src]
impl PartialOrd for <code>CpuidResult</code>	[src]
impl<T: ?Sized + PartialOrd> PartialOrd for <code>Box&lt;T&gt;</code>	
impl<T: ?Sized + PartialOrd> PartialOrd for <code>Arc&lt;T&gt;</code>	
impl<T: ?Sized + PartialOrd> PartialOrd for <code>Rc&lt;T&gt;</code>	
impl<K: PartialOrd, V: PartialOrd> PartialOrd for <code>BTreeMap&lt;K, V&gt;</code>	



Trait PartialOrd

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Eq  
Ord  
PartialEq  
PartialOrd

Functions

max  
min

```
impl<T: PartialOrd> PartialOrd for BTreeSet<T>

impl<'a, B: ?Sized> PartialOrd for Cow<'a, B>
where
    B: PartialOrd + ToOwned,

impl<T: PartialOrd> PartialOrd for LinkedList<T>

impl PartialOrd for String

impl<T: PartialOrd> PartialOrd for Vec<T>

impl<A: PartialOrd> PartialOrd for VecDeque<A>

impl PartialOrd for UnicodeVersion
```