Module sui::linked table

Similar to <u>sui::table</u> but the values are linked together, allowing for ordered insertion and removal

Creates a new, empty table

Returns the key for the first element in the table, or None if the table is empty

Returns the key for the last element in the table, or None if the table is empty

Inserts a key-value pair at the front of the table, i.e. the newly inserted pair will be the first element in the table Aborts with sui::dynamic field::EFieldAlreadyExists if the table already has an entry with that key k: K.

Inserts a key-value pair at the back of the table, i.e. the newly inserted pair will be the last element in the table Aborts with sui::dynamic field::EFieldAlreadyExists if the table already has an entry with that key k: K.

Immutable borrows the value associated with the key in the table $\underline{\text{table}}$: & $\underline{\text{LinkedTable}}$. Aborts with $\underline{\text{sui::dynamic}}$ field:: $\underline{\text{EFieldDoesNotExist}}$ if the table does not have an entry with that key k: K.

Mutably borrows the value associated with the key in the table $\underline{\text{table}}$: & mut $\underline{\text{LinkedTable}}$. Aborts with $\underline{\text{sui::dynamic}}$ field::EFieldDoesNotExist if the table does not have an entry with that key k: K.

Borrows the key for the previous entry of the specified key k: K in the table table : & LinkedTable . Returns None if the entry does not have a predecessor. Aborts with sui::dynamic_field::EFieldDoesNotExist if the table does not have an entry with that key k: K

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Removes the key-value pair in the table <u>table</u>: & mut <u>LinkedTable</u> and returns the value. This splices the element out of the ordering. Aborts with <u>sui::dynamic_field::EFieldDoesNotExist</u> if the table does not have an entry with that key k: K. Note: this is also what happens when the table is empty.

Removes the front of the table table: & mut LinkedTable and returns the value. Aborts with ETableIsEmpty if the table is empty

Removes the back of the table table: & mut Linked Table and returns the value. Aborts with ETable IsEmpty if the table is empty

Returns true iff there is a value associated with the key k: K in table table: & LinkedTable

Returns the size of the table, the number of key-value pairs

Returns true iff the table is empty (if length returns 0)

Destroys an empty table Aborts with **ETableNotEmpty** if the table still contains values

Drop a possibly non-empty table. Usable only if the value type V has the drop ability

Struct

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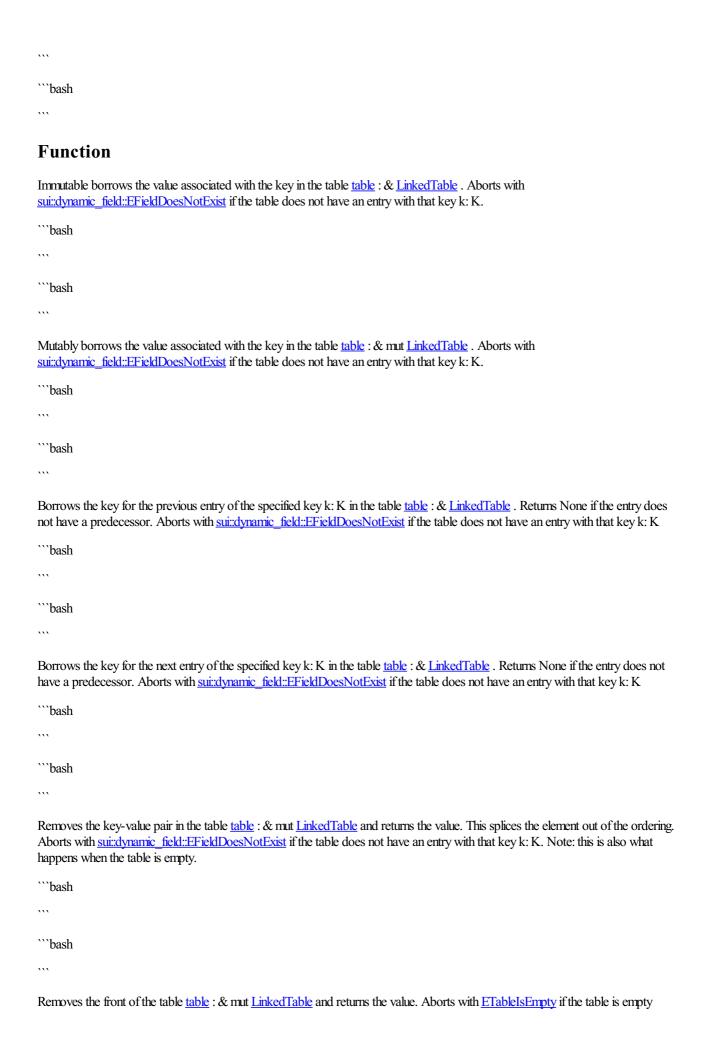
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Mutably borrows the value associated with the key in the table <a href="table">table</a> : & mut <a href="LinkedTable">LinkedTable</a> . Aborts with <a href="sui:dynamic_field::EFieldDoesNotExist">sui:dynamic_field::EFieldDoesNotExist</a> if the table does not have an entry with that key k: K.
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```bash
Borrows the key for the previous entry of the specified key $k$ : $K$ in the table $\underline{\text{table}}$ : & $\underline{\text{LinkedTable}}$ . Returns None if the entry does not have a predecessor. Aborts with $\underline{\text{sui::dynamic}}$ _field:: $\underline{\text{FieldDoesNotExist}}$ if the table does not have an entry with that key $k$ : $K$
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Removes the key-value pair in the table <u>table</u> : & mut <u>LinkedTable</u> and returns the value. This splices the element out of the ordering. Aborts with <u>sui::dynamic_field::EFieldDoesNotExist</u> if the table does not have an entry with that key k: K. Note: this is also what happens when the table is empty.
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