### Find events relative to the same ID in two tables (by dates)

```
library(data.table)
set.seed(200)
```

#### first table

# second table

## find all what1 before what2 (without allow.cartesian = T doesnot work)

```
merge(date_table_1,
  date_table_2,
  by = "hetu",
  allow.cartesian = T)[date1<date2]</pre>
```

if want first(min) what2 after what1 (see that for date2 can be more than one date1)

```
merge(date_table_1,
  date_table_2,
  by = "hetu",
  allow.cartesian = T)[date1<date2][,.SD[which.min(date2)],list(hetu,date1)]</pre>
```

as previous, but take the last(max) date1 (if there are multiple)

```
merge(date_table_1,
  date_table_2,
  by = "hetu",
  allow.cartesian =
    T) [date1<date2][,.SD[which.min(date2)], list(hetu, date1)][,.SD[which.max(date1)], list(hetu, date2)]</pre>
```

if want last(max) what1 beforewhat2 (see that for date1 can be more than one date2)

```
merge(date_table_1,
  date_table_2,
  by = "hetu",
  allow.cartesian = T)[date1<date2][,.SD[which.max(date1)],list(hetu,date2)]</pre>
```

as previous, but take the first(min) date2 (if there are multiple)

```
merge(date_table_1,
  date_table_2,
  by = "hetu",
  allow.cartesian =
    T) [date1<date2][,.SD[which.max(date1)],list(hetu,date2)][,.SD[which.min(date2)],list(hetu,date1)]</pre>
```

# Mark words containing some regexp and replace this place as "///" word "\\\" library(stringr) begin\_mark <-"///"

#### Load data into R

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