

The screenshot shows the Xcode IDE interface. The 'Objects' pane on the left lists several menu items: 'Menu Menu', 'Menu Chap4' (selected), 'Menu Chap6', and 'Menu Quiz'. The 'Properties' pane on the right shows the properties of the selected 'Menu Chap4' object, including 'Chap4', 'JOURNAL: [Entry: 3 events, En...', and 'EVENTS: Set'. The 'Methods' pane on the right shows the methods of the selected object, including 'Chap4' methods like 'analyze', 'correlation', 'tableFor', and 'Menu' methods like 'allKeysIn', 'allValuesOf', 'deepEqual', 'toString', and 'Object' methods like 'new Date()'. The status bar at the bottom indicates '[object Menu] Chap4 — 2 properties and 7 methods'.

The screenshot shows a web application interface with a top navigation bar containing three buttons: a back arrow, "Objects", and "x". Below the navigation bar is a main content area divided into two columns. The left column, titled "Menu", lists four menu items: "Menu", "Menu Chap4", "Menu Chap6", and "Menu Quiz". The right column, titled "Properties", displays the properties of the selected "Menu" object. The properties are listed as follows: "a": [0,11,22,abc], "c": Object, "d": Tue Oct 19 2021 10:37:31 ..., and "s": "Small is beautiful". Below the properties is a section titled "Methods" with a blue checkmark icon and the text "sort". The "Methods" section lists four methods: "allKeysIn", "allValuesOf", "deepEqual", and "toString". Below the methods is a section titled "Object". At the bottom of the page, there is a text input field containing "new Date()", followed by a button labeled "new Date()". Below the input field, there is a text label "[object Menu] Menu — 5 properties and 4 methods".

⚠️ Error with Permissions-Policy header: Unrecognized feature: 'interest-cohort'.

```
> x=JOURNAL
< (90) [Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, E
> y, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entr
ntry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, E
y, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entr
> x.filter(v => v.events.includes("work"))
< (60) [Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, E
> y, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entr
ntry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry]
> x.filter(v => v.events.includes("weekend"))
< (30) [Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, Entry, E
> y, Entry, Entry, Entry, Entry, Entry, Entry]
> x.filter(v => v.events.includes("weekend")).filter(v => v.events.includes("work"))
< []
> // No 2 event includes both weekend and work at the same time as we can see in the last filter.
< undefined
> //And total length of the result of filters that filters out work and weekend
< undefined
> //sums up to the size of original JOURNAL.
< undefined
> //This proves each entry has exactly one weekend or work
< undefined
>
```

Console was cleared

```
< undefined
> cnt={}
< ▶ {}
> x.forEach(x=>x.events.forEach(e=>cnt[e]=cnt[e]?cnt[e]+1:1))
< undefined
> cnt.cauliflower
< 9
> cnt["cauliflower"]
< 9
> m = new Map()
< ▶ Map(0) {size: 0}
> x.forEach(x=>x.events.forEach(e=>m.set(e, (m.get(e)?m.get(e)+1:1))))
< undefined
> m.get('pizza')
< 10
> obj={}; for (k of m.keys()) obj[k]=m.get(k)
< 13
> obj.cauliflower
< 9
> MENU.deepEqual(obj, cnt)
< true
>
```