

Vuex. Modules

Для чого потрібні модулі?

У випадку, коли у додатку використовуються різні сутності.

Наприклад, зберігаються дані:

- про користувачів,
- про товари
- про виробників
- про постачальників
- про замовлення
-



Для чого потрібні модулі?

У випадку, коли у додатку використовуються різні сутності то :

1)у state доведеть зберігати дані різних сутностей

2)у getters доводиться зберігати геттери для роботи з різними сутностями

3)у mutations мутації для роботи з різними сутностями

... ..



Для чого потрібні модулі?

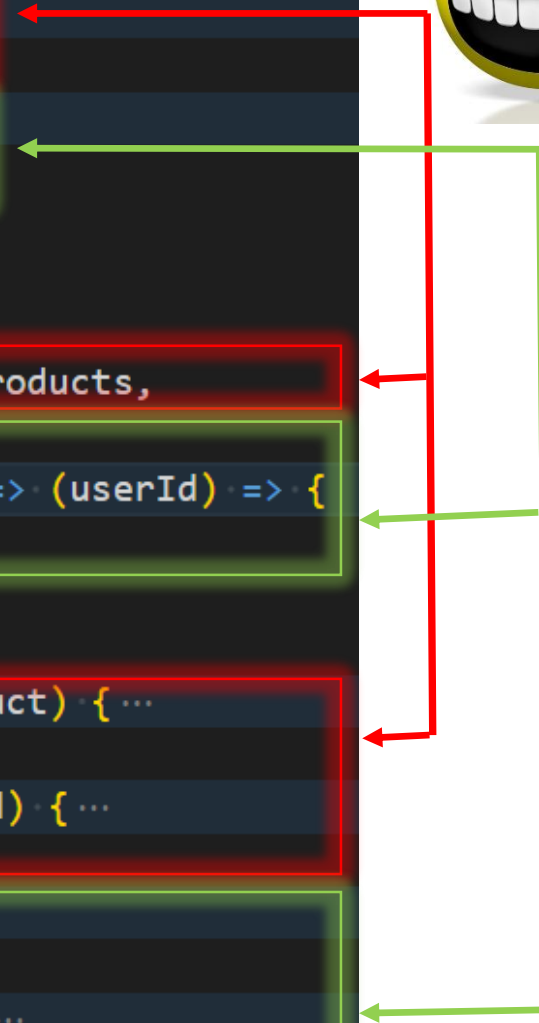
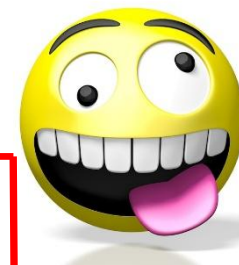
У випадку, коли у додатку використовуються різні сутності то :

- 1)у state доведеться зберігати дані різних сутностей
- 2)у getters доводиться зберігати геттери для роботи з різними сутностями
- 3)у mutations мутації для роботи з різними сутностями

... ..

Легко заплутатись до яких сутностей відносяться методи для роботи з даними

```
const store = createStore({
  state: () => {
    return {
      products: [ ... ],
      users: [ ... ],
    }
  },
  getters: {
    products: ({ products }) => products,
    users: ({ users }) => users,
    getUserProductsData: (state) => (userId) => {
      ...
    },
  },
  mutations: {
    editProduct(state, editedProduct) { ... },
    deleteProduct(state, productId) { ... },
    addUser(state, user) { ... },
    editUser(state, editedUser) { ... },
    deleteUser(state, userId) { ... },
  },
})
```



Модуль 1

```
const moduleA = {  
  state: () => ({ ... }),  
  mutations: { ... },  
  actions: { ... },  
  getters: { ... }  
}
```

Модуль 2

```
const moduleB = {  
  state: () => ({ ... }),  
  mutations: { ... },  
  actions: { ... }  
}
```



1) Обробку даних окремих сутностей виносимо в окремі модулі



Модуль 1

```
const moduleA = {
  state: () => ({ ... }),
  mutations: { ... },
  actions: { ... },
  getters: { ... }
}
```

Модуль 2

```
const moduleB = {
  state: () => ({ ... }),
  mutations: { ... },
  actions: { ... }
}
```

1) Обработку данных отдельных сущностей выносимо в отдельные модули



```
store.state.a // -> `moduleA`'s state
store.state.b // -> `moduleB`'s state
```

2) Створення кореневого сховища, яке об'єднує модулі

```
const store = createStore({
  state() { . . . . . },
  getters: { . . . . . },
  mutations: { . . . . . },
  actions: { . . . . . },

  //---підключення модулів ---
  modules:{
    модуль1,
    модуль2,
    . . . . .
    нова_назва_модуля : модуль
    . . . . .
  }
})
```

```
const store = createStore({
  modules: {
    a: moduleA,
    b: moduleB
  }
})
```

JS products.js store U X

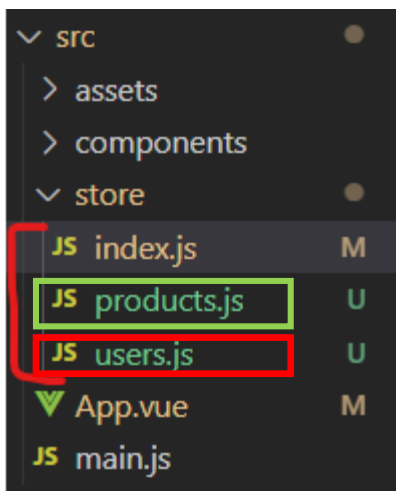
```
src > store > JS products.js > getters > products
1  const state = {
2    ... products: [
3      ... { id: 1, title: 'Продукт 1', price: 100 },
4      ... { id: 2, title: 'Продукт 2', price: 200 },
5      ... { id: 3, title: 'Продукт 3', price: 150 },
6      ... { id: 4, title: 'Продукт 4', price: 120 },
7      ... { id: 5, title: 'Продукт 5', price: 180 },
8    ],
9  }
10 const getters = {
11   products: ({ products }) => products,
12 }
13 > const mutations = { ...
23 }
24
25 > const actions = { ...
32 }
33
34 export default {
35   ... namespace: true,
36   ... state,
37   ... getters,
38   ... mutations,
39   ... actions,
40 }
```

Приклад. Сховище складається з двох частин:

- 1) для роботи з списком товарів
- 2) для роботи з списком користувачів

JS users.js store U X

```
src > store > JS users.js > getters
1  const state = {
2    ... users: [
3      ... { id: 1, name: 'Користувач 1', productList: [1, 3] },
4      ... { id: 2, name: 'Користувач 2', productList: [2, 4] },
5      ... { id: 3, name: 'Користувач 3', productList: [1, 5] },
6      ... { id: 4, name: 'Користувач 4', productList: [2, 3, 4] },
7      ... { id: 5, name: 'Користувач 5', productList: [5] },
8    ],
9  }
10
11 > const getters = { ...
21 }
22
23 > const mutations = { ...
36 }
37
38 > const actions = { ...
50 }
51
52 export default {
53   ... namespace: true,
54   ... state,
55   ... getters,
56   ... mutations,
57   ... actions,
58 }
```



1) Обробку даних окремих сутностей виносимо в окремі модулі

JS products.js store U X

```
src > store > JS products.js > [🔍] getters > [📦] products
1  const state = {
2    ...products: [
3      ...{ id: 1, title: 'Продукт 1', price: 100 },
4      ...{ id: 2, title: 'Продукт 2', price: 200 },
5      ...{ id: 3, title: 'Продукт 3', price: 150 },
6      ...{ id: 4, title: 'Продукт 4', price: 120 },
7      ...{ id: 5, title: 'Продукт 5', price: 180 },
8    ],
9  }
10 const getters = {
11   ⚡ products: ({ products }) => products,
12 }
13 > const mutations = { ...
23 }
24
25 > const actions = { ...
32 }
33
34 export default {
35   ...namespaced: true,
36   ...state,
37   ...getters,
38   ...mutations,
39   ...actions,
40 }
```

Приклад. Сховище складається з двох частин:

- 1) для роботи з списком товарів
- 2) для роботи з списком користувачів

1) Обробку даних окремих сутностей виносимо в окремі модулі

JS users.js store U X

```
src > store > JS users.js > [🔍] getters
1  const state = {
2    ...users: [
3      ...{ id: 1, name: 'Користувач 1', productList: [1, 3] },
4      ...{ id: 2, name: 'Користувач 2', productList: [2, 4] },
5      ...{ id: 3, name: 'Користувач 3', productList: [1, 5] },
6      ...{ id: 4, name: 'Користувач 4', productList: [2, 3, 4] },
7      ...{ id: 5, name: 'Користувач 5', productList: [5] },
8    ],
9  }
10 ⚡
11 > const getters = { ...
21 }
22
23 > const mutations = { ...
36 }
37
38 > const actions = { ...
50 }
51
52 export default {
53   ...namespaced: true,
54   ...state,
55   ...getters,
56   ...mutations,
57   ...actions,
58 }
```

JS index.js store M X

```
src > store > JS index.js > ...
You, 3 seconds ago | 1 author (You)
1  import { createStore } from 'vuex'
2  import productsModule from './products'
3  import usersModule from './users'
4
5  // Create a new store instance.
6  const store = createStore({
7    ...modules: {
8      ...products: productsModule,
9      ...users: usersModule,
10   },
11 })
12 export default store
```

File explorer showing the project structure:

- src
 - assets
 - components
 - store
 - JS index.js (M)
 - JS products.js (U)
 - JS users.js (U)
 - App.vue (M)
 - main.js

2) Створення кореневого сховища


```
<template>
```

```
</template>
```

```
<script>
```

```
//1. Імпортуємо mapGetters
```

```
import { mapGetters } from 'vuex'
```

```
export default {
```

```
}
```

```
</script>
```

▼ App.vue src M ×

src > ▼ App.vue > {} "App.vue" > script

You, 2 minutes ago | 1 author (You)

```
1 <template>
```

```
2   ...
```

```
3   ...
```

```
4   ...
```

```
5   ...
```

```
6   ...
```

```
7 </template>
```

```
8
```

```
9 <script>
```

```
10 import { mapGetters } from 'vuex'
```

```
11
```

```
12 export default {
```

```
13   ... name: 'App',
```

```
14
```

```
15   ... components: {},
```

```
16
```

```
17   ... data() {
```

```
18     ... return {}
```

```
19   },
```

```
20
```

```
21   ... computed: {
```

```
22     ...
```

```
23     ...
```

```
24   },
```

```
25
```

```
26   ... methods: {},
```

```
27 }
```

```
28 </script>
```

```
29
```

Використання геттерів з модулів у компонентах

Загальна схема

```
<template>
```

```
</template>
```

```
<script>
```

```
//1. Імпортуємо mapGetters
```

```
import { mapGetters } from 'vuex'
```

```
export default {
```

```
  . . . . .
```

```
//2. Підключаємо геттери
```

```
computed: {
```

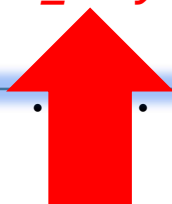
```
  ...mapGetters('назва_модуля', [ 'геттер1', ... ]),
```

```
},
```

```
  . . . . .
```

```
}
```

```
</script>
```



Приклад

▼ App.vue src M X

src > ▼ App.vue > {} "App.vue" > script

You, 2 minutes ago | 1 author (You)

```
1 <template>
```

```
2   ...
```

```
3   ...
```

```
4   ...
```

```
5   ...
```

```
6   ...
```

```
7 </template>
```

```
8
```

```
9 <script>
```

```
10 import { mapGetters } from 'vuex'
```

```
11
```

```
12 export default {
```

```
13   ... name: 'App',
```

```
14
```

```
15   ... components: {},
```

```
16
```

```
17   ... data() {
```

```
18     ... return {}
```

```
19   },
```

```
20
```

```
21   ... computed: {
```

```
22     ... ...mapGetters('users', ['users', 'getUserProductsData'])
```

```
23   },
```

```
24
```

```
25   ... methods: {},
```

```
26
```

```
27 }
```

```
28 </script>
```

```
29
```

```
21   ... computed: {
22     ... ...mapGetters('users', ['users', 'getUserProductsData'])
23   },
24
```



Використання геттерів з модулів у компонентах

Загальна схема

```
<template>
//3. Використовуємо геттери як звичайну
обчислювальну властивість
```

```
    . . . . .
    <тег>{{ геттер }}</тег>
    . . . . .
    <тег :атрибут = "геттер" />
    . . . . .
```

```
</template>
```

```
<script>
```

```
//1. Імпортуємо mapGetters
import { mapGetters } from 'vuex'
```

```
export default {
    . . . . .
```

```
//2. Підключаємо геттери
computed: {
    ...mapGetters('назва_модуля', ['геттер1', ...]),
},
    . . . . .
```

```
}
</script>
```

Приклад

▼ App.vue src M ×

src > ▼ App.vue > {} "App.vue" > script

You, 2 minutes ago | 1 author (You)

```
1  <template>
2      <div>{{ users }}</div>
3      <hr />
4      <div>{{ getUserProductsData(1) }}</div>
5
6
7  </template>
8
9  <script>
10     import { mapGetters } from 'vuex'
11
12     export default {
13         name: 'App',
14
15         components: {},
16
17         data() {
18             return {}
19         },
20
21         computed: {
22             ...mapGetters('users', ['users', 'getUserProductsData']),
23
24         },
25
26         methods: {},
27     }
28 </script>
29
```

Використання геттерів з модулів у компонентах

App.vue src M X

src > App.vue > {} "App.vue" > script

You, 2 minutes ago | 1 author (You)

```
1 <template>
2   <div>{{ users }}</div>
3   <hr />
4   <div>{{ getUserProductsData(1) }}</div>
5   <hr />
6   <div>{{ products }}</div>
7 </template>
```

<script>

```
10 import { mapGetters } from 'vuex'
```

```
12 export default {
```

```
13   name: 'App',
```

```
15   components: {},
```

```
17   data() {
```

```
18     return {}
```

```
19   },
```

```
21   computed: {
```

```
22     ...mapGetters('users', ['users', 'getUserProductsData']),
```

```
23     ...mapGetters('products', ['products']),
```

```
24   },
```

```
26   methods: {},
```

```
27 }
```

```
28 </script>
```

JS users.js store U X

src > store > JS users.js > ...

```
1 const state = {
```

```
2   users: [ ...
```

```
8     ],
```

```
9   }
```

```
11 const getters = {
```

```
12   users: ({ users }) => users,
```

```
13   getUserProductsData: (state, getters, rootState, rootGetters) => (userId) => {
```

```
20     ...
```

```
21   },
```

```
22 }
```

```
23 const mutations = { ...
```

```
36 }
```

JS products.js store U X

src > store > JS products.js > mutations

```
1 const state = {
```

```
2   products: [ ...
```

```
8     ],
```

```
9   }
```

```
10 const getters = {
```

```
11   products: ({ products }) => products,
```

```
12 }
```

```
13 const mutations = { ...
```

```
23 }
```

```
24 
```

```
25 const actions = { ...
```

```
32 }
```

Використання геттерів з модулів у компонентах

App.vue src M X

src > App.vue > {} "App.vue" > script

You, 2 minutes ago | 1 author (You)

```
1 <template>
2   <div>{{ users }}</div>
3   <hr />
4   <div>{{ getUserProductsData(1) }}</div>
5   <hr />
6   <div>{{ products }}</div>
7 </template>
```

<script>

```
10 import { mapGetters } from 'vuex'
```

```
12 export default {
13   name: 'App',
```

```
15   components: {},
```

```
17   data() {
18     return {}
19   },
```

```
21   computed: {
22     ...mapGetters('users', ['users', 'getUserProductsData']),
23     ...mapGetters('products', ['products']),
24   },
```

```
26   methods: {},
```

```
28 </script>
```

JS users.js store U X

src > store > JS users.js > ...

```
1 const state = {
2   < ? > users: [ ...
8   ],
9 }
10
11 const getters = {
12   users: ({ users }) => users,
13   < ? > getUserProductsData: (state, getters,
14     rootState, rootGetters) => (userId) => {
20     ... },
21 }
22
23 < ? > const mutations = { ...
36 }
```

JS products.js store U X

src > store > JS products.js > [?] mutations

```
1 const state = {
2   < ? > products: [ ...
8   ],
9 }
10 const getters = {
11   products: ({ products }) => products,
12   < ? >
13 < ? > const mutations = { ...
23 }
24
25 < ? > const actions = { ...
32 }
```

```
<template>
```

```
<script>
```

```
//1. Імпортуємо mapActions
```

```
import { mapActions } from 'vuex'
```

```
export default {
```

```
}
```

```
</script>
```

```
<template>
```

```
  <div>  
    <div>  
      <div>  
        <div>  
          <div>  
            <div>  
              <div>  
                <div>  
                  <div>  
                    <div>  
                      <div>  
                        <div>  
                          <div>  
                        </div>  
                      </div>  
                    </div>  
                  </div>  
                </div>  
              </div>  
            </div>  
          </div>  
        </div>  
      </div>  
    </div>  
  </div>
```

```
</template>
```

```
<script>
```

```
import { mapGetters, mapActions } from 'vuex'
```

```
export default {
```

```
  name: 'App',
```

```
  computed: {
```

```
    ...mapGetters('users', ['users',  
      'getUserProductsData']),
```

```
  },
```

```
  methods: {
```

```
    ...  
  },
```

```
}
```

```
</script>
```

<script>

```
import { mapActions } from 'vuex'
```

• • • • •

```
methods: {
```

} ,

}

</script>

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

<script>

```
export default {
```

```
name: 'App',
```

```
· computed: {
```

```
...mapGetters('users', ['users',  
  'getUserProductsData']),
```

 $\}$

```
methods: {
```

```
...mapActions('users', ['deleteUser']),
```

 $\}$

}

</script>

Використання action-методів з модулів у компонентах

Загальна схема

```
<template>
//3. Використовуємо action-методи як звичайні
методи
    . . . . .
    <тег @подія="action-метод" />
    . . . . .
</template>

<script>
//1. Імпортуємо mapActions
import { mapActions } from 'vuex'

export default {
    . . . . .

//2. Підключаємо action-методи
methods: {
...mapActions('назва_модуля', ['action-метод']),
},
    . . . . .
}
</script>
```

Приклад

```
<template>
  <div v-for="user in users" :key="user.id">
    <span>{{ user.name }}</span>
    <button @click="deleteUser(user.id)">Delete</button>
  </div>
</template>

<script>
import { mapGetters, mapActions } from 'vuex'

export default {
  name: 'App',

  computed: {
    ...mapGetters('users', ['users',
      'getUserProductsData']),
  },

  methods: {
    ...mapActions('users', ['deleteUser']),
  },
}
</script>
```


Використання action-методів з модулів у компонентах

App.vue src M

src > App.vue > {} "App.vue" > template > div

You, 1 second ago | 1 author (You)

```
1 <template>
2   <div v-for="user in users" :key="user.id">
3     <span>{{ user.name }}</span>
4     <button @click="deleteUser(user.id)">Delete</button>
5   </div>
6 </template>
7
8 <script>
9   import { mapGetters, mapActions } from 'vuex'
10
11   export default {
12     name: 'App',
13
14     computed: {
15       ...mapGetters('users', ['users', 'getUserProductsData']),
16     },
17
18     methods: {
19       ...mapActions('users', ['deleteUser']),
20     },
21   }
22 </script>
```

JS users.js store U X

src > store > JS users.js > mutations

```
1 const state = {
2   users: [ ...
8   ],
9 }
10
11 const getters = {
12   users: ({ users }) => users,
13   getUserProductsData: (state, getters, rootState,
14     rootGetters) => (userId) => { ...
20   },
21 }
22
23 const mutations = { ...
36 }
37
38 const actions = {
39   addUser(context, user) { ...
43   },
44   editUser(context, editedUser) { ...
46   },
47   deleteUser(context, userId) { ...
49   },
50 }
```

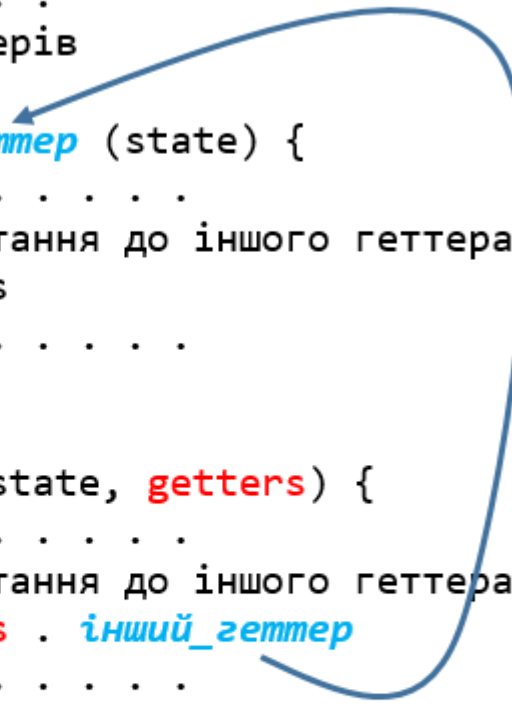
Як звернутись до іншого геттера в межах одного локального модуля

```
import { createStore } from 'vuex'

const store = createStore({
  . . . . .
  //опис геттерів
  getters: {
    інший_геттер (state) {
      . . . . .
      //звертання до іншого геттера
      getters
      . . . . .
    },

    геттер1(state, getters) {
      . . . . .
      //звертання до іншого геттера
      getters . інший_геттер
      . . . . .
    },

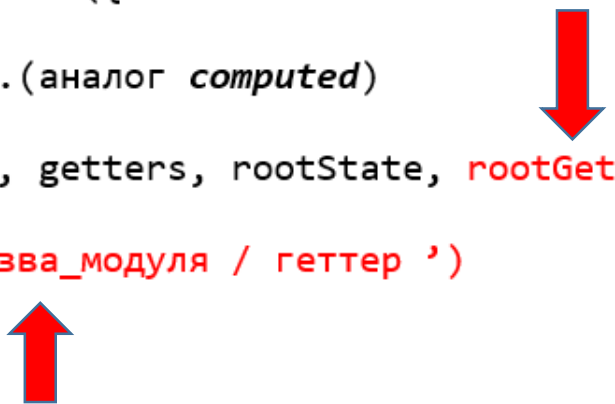
    . . . . .
  },
  . . . . .
})
```



Використання геттерів з інших модулів

```
import { createStore } from 'vuex'

const store = createStore({
  //опис обчисл.власт.(аналог computed)
  getters: {
    обч.геттер1(state, getters, rootState, rootGetters) {
      //опис обчисл.власт.(аналог computed)
      rootGetters('назва_модуля / геттер ')
    },
  },
})
```



The diagram illustrates the flow of `rootGetters` from the Vuex store configuration to the actual implementation in the code. A red arrow points from the `rootGetters` property in the store configuration to the `rootGetters` argument in the `обч.геттер1` function. Another red arrow points from the `rootGetters` argument in the function to the `rootGetters` property in the `const getters = {` block.

```
JS users.js store U X
src > store > JS users.js > getters
1  const state = {
2    ...users: [
3      ...{ id: 1, name: 'Користувач 1', productsList: [1, 3] },
4      ...{ id: 2, name: 'Користувач 2', productsList: [2, 4] },
5      ...{ id: 3, name: 'Користувач 3', productsList: [1, 5] },
6      ...{ id: 4, name: 'Користувач 4', productsList: [2, 3, 4] },
7      ...{ id: 5, name: 'Користувач 5', productsList: [5] },
8    ],
9  },
10
11  const getters = {
12    ...users: ({ users }) => users,
13    ...getUserProductsData: (state, getters, rootState, rootGetters) => (userId) => {
14      ...const user = state.users.find((u) => u.id === userId)
15      ...if (user) {
16        ...const userProducts = rootGetters['products/products'].
17          ...filter((p) => user.productsList.includes(p.id))
18        ...return userProducts
19      }
20      ...return []
21    },
22  },
23  > const mutations = { ...
24  }
25
26  > const actions = { ...
27  }
28
29  >
30
31  >
32
33  >
34
35  >
36
37  >
38
39  >
40
41  >
42
43  >
44
45  >
46
47  >
48
49  >
50  }
```

src > store > JS users.js > [🔍] getters

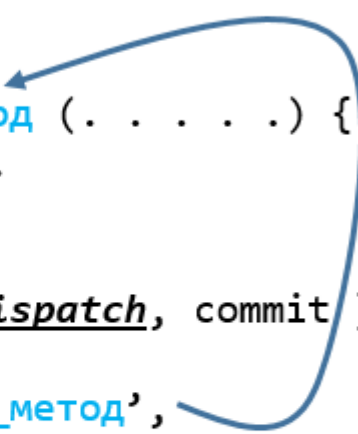
```
1  const state = {
2    ...users: [
3      ...{ id: 1, name: 'Користувач 1', productList: [1, 3] },
4      ...{ id: 2, name: 'Користувач 2', productList: [2, 4] },
5      ...{ id: 3, name: 'Користувач 3', productList: [1, 5] },
6      ...{ id: 4, name: 'Користувач 4', productList: [2, 3, 4] },
7      ...{ id: 5, name: 'Користувач 5', productList: [5] },
8    ],
9  }
10  ⚡
11  const getters = {
12    ...users: ({ users }) => users,
13    ...getUserProductsData: (state, getters, rootState, rootGetters)
14      => (userId) => {
15      ...const user = state.users.find((u) => u.id === userId)
16      ...if (user) {
17      ...const userProducts = rootGetters['products/products'].
18      ...filter((p) => user.productList.includes(p.id))
19      ...return userProducts
20      ...}
21      ...return []
22    },
23  }
24  > const mutations = { ...
25  }
26  }
27
28  > const actions = { ...
29  }
30  }
```

src > store > JS products.js > [🔍] getters > [📦] products

```
1  const state = {
2    ...products: [
3      ...{ id: 1, title: 'Продукт 1', price: 100 },
4      ...{ id: 2, title: 'Продукт 2', price: 200 },
5      ...{ id: 3, title: 'Продукт 3', price: 150 },
6      ...{ id: 4, title: 'Продукт 4', price: 120 },
7      ...{ id: 5, title: 'Продукт 5', price: 180 },
8    ],
9  }
10  const getters = {
11    ...products: ({ products }) => products,
12  }
13  > const mutations = { ...
14  }
15  }
16
17  > const actions = { ...
18  }
19  }
20
21  export default {
22    ...namespaced: true,
23    ...state,
24    ...getters,
25    ...mutations,
26    ...actions,
27  }
```

```
import { createStore } from 'vuex'

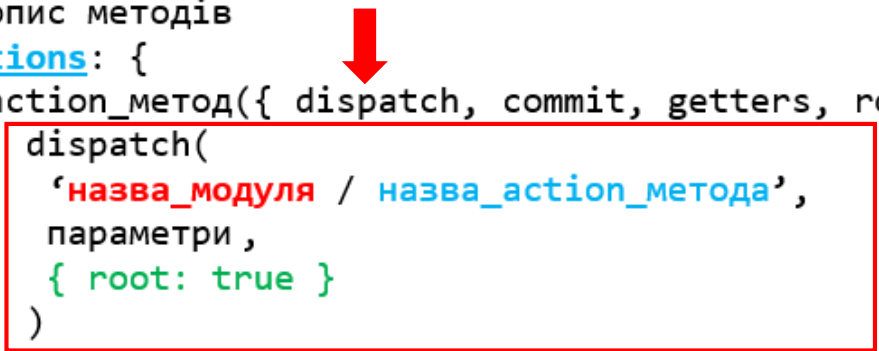
const store = createStore({
  . . . . .
  //опис методів
  actions: {
    інший_action_метод (. . . . .) {
      . . . . .
    },
    action_метод({ dispatch, commit }) {
      dispatch(
        'інший_action_метод',
        параметри
      )
    }
    . . . . .
  },
  . . . . .
})
```



Використання action-методів з інших модулів

```
import { createStore } from 'vuex'

const store = createStore({
  . . . . .
  //опис методів
  actions: {
    action_метод({ dispatch, commit, getters, rootGetters }) {
      dispatch(
        'назва_модуля / назва_action_метода',
        параметри,
        { root: true }
      )
    }
    . . . . .
  },
  . . . . .
})
```

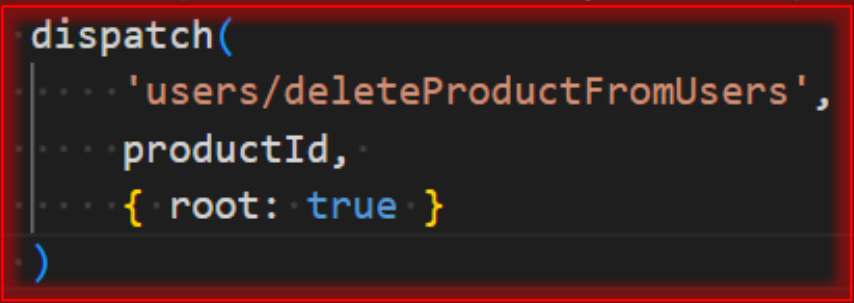


```
const state = {
  . . . products: [ ...
  . . . ],
}

const getters = { ...
}

const mutations = { ...
}

const actions = {
  . . . editProduct(context, editedProduct) { ...
  . . . },
  . . . deleteProduct({ commit, dispatch }, productId) {
    . . . commit('deleteProduct', productId)
    . . . dispatch(
      . . . 'users/deleteProductFromUsers',
      . . . productId,
      . . . { root: true }
    )
  . . . },
}
```



Використання action-методів з інших модулів

JS products.js store U ●

src > store > JS products.js > actions > deleteProduct

```
1  const state = {
2  >    ...products: [ ...
8    ... ],
9  }
10 > const getters = { ...
12 }
13 > const mutations = { ...
23 }
24
25 const actions = {
26 >    ...editProduct(context, editedProduct) { ...
28    ... },
29    ...deleteProduct({ commit, dispatch }, productId) {
30    ...    commit('deleteProduct', productId)
31    ...    dispatch(
32    ...      ...'users/deleteProductFromUsers',
33    ...      productId,
34    ...      { root: true }
35    ...    )
36    ... },
37  }
38
```

JS users.js store U ✕

src > store > JS users.js > default

```
1  const state = {
2  >    ...users: [ ...
8    ... ],
9  }
10
11 > const getters = { ...
21 }
22
23 > const mutations = { ...
36 }
37
38 const actions = {
39 >    ...addUser(context, user) { ...
43    ... },
44 >    ...editUser(context, editedUser) { ...
46    ... },
47 >    ...deleteUser(context, userId) { ...
49    ... },
50    ...deleteProductFromUsers({ commit }, productId) {
51    ...    ...commit('removeProductFromUsers', productId)
52    ... },
53  }
```

JS index.js store M X

src > store > JS index.js > store > mutations

You, 15 minutes ago | 1 author (You)

```

1 import { createStore } from 'vuex'
2 import productsModule from './products'
3 import usersModule from './users'
4
5 // Create a new store instance.
6 const store = createStore({
7   state: () => {
8     return {
9       globalCounter: 99,
10     }
11   },
12   getters: {
13     getGlobalCounter: (state) => state.globalCounter,
14   },
15   mutations: {
16     setGlobalCounter(state) {
17       state.getGlobalCounter++
18     },
19   },
20   actions: {
21     incGlobalCounter({ commit }) {
22       commit('setGlobalCounter')
23     },
24   },
25   modules: {
26     products: productsModule,
27     users: usersModule,
28   },
29 })

```

JS products.js store U X

src > store > JS products.js > mutations > editProduct >

```

1 const state = {
2   products: [ ...
8   ],
9 }
10 const getters = {
11   products: ({ products }) => products,
12 }

```

rootState

- ▼ Proxy(Object) {globalCounter: 99, products
 - ▶ [[Handler]]: MutableReactiveHandler
 - ▼ [[Target]]: Object
 - globalCounter: 99
 - ▼ products:
 - ▶ products: (4) [Proxy(Object), Proxy(O
 - ▶ [[Prototype]]: Object
 - ▼ users:
 - ▶ users: (5) [{...}, {...}, {...}, {...}, {...}]
 - ▶ [[Prototype]]: Object

JS users.js store U X

src > store > JS users.js > getters

```

1 const state = {
2   users: [ ...
8   ],
9 }
10
11 const getters = {
12   getUsers: ({ users }) => users,
13
14   users: ({ users }) => users,
15   getUserProductsData: (state, getters,
16     rootState, rootGetters) => (userId) => {
22     },
23 }
24
25 const mutations = { ...
38 }
39
40 const actions = {
41   addUser(context, user) { ...
45   },
46   editUser(context, editedUser) { ...
48   },
49   deleteUser(context, userId) { ...
51   },
52   deleteProductFromUsers(cox, productId) { ...
56   },
57 }

```



```

JS index.js store M X
src > store > JS index.js > store > mutations
You, 15 minutes ago | 1 author (You)
1 import { createStore } from 'vuex'
2 import productsModule from './products'
3 import usersModule from './users'
4
5 // Create a new store instance.
6 const store = createStore({
7   state: () => {
8     return {
9       globalCounter: 99,
10    }
11  },
12  getters: {
13    getGlobalCounter: (state) => state.globalCounter,
14  },
15  mutations: {
16    setGlobalCounter(state) {
17      state.getGlobalCounter++
18    },
19  },
20  actions: {
21    incGlobalCounter({ commit }) {
22      commit('setGlobalCounter')
23    },
24  },
25  modules: {
26    products: productsModule,
27    users: usersModule,
28  },
29 })

```

```

JS products.js store U X
src > store > JS products.js > mutations > editProduct >
1 const state = {
2   products: [ ...
8   ],
9 }
10 const getters = {
11   products: ({ products }) => products,
12 }
13 const mutations = {
14   editProduct(state, editedProduct) {
15     const index = state.products.
16       findIndex((p) => p.id ===
17         editedProduct.id)
18     if (index !== -1) {
19       state.products[index] =
20         editedProduct
21     }
22   },
23 },
24
25 const actions = {
26   editProduct(context, editedProduct) {
27     ...
28   },
29   deleteProduct({ commit, dispatch,
30     rootState, rootGetters }, productId) {
31     ...
32   },
33 },
34
35 const mutations = {
36   ...
37 },
38
39 const actions = {
40   ...
41 },
42
43 const mutations = {
44   ...
45 },
46
47 const actions = {
48   ...
49 },
50
51 const mutations = {
52   ...
53 },
54
55 const mutations = {
56   ...
57 },
58
59 const mutations = {
60   ...
61 },
62
63 const mutations = {
64   ...
65 },
66
67 const mutations = {
68   ...
69 },
70
71 const mutations = {
72   ...
73 },
74
75 const mutations = {
76   ...
77 },
78
79 const mutations = {
80   ...
81 },
82
83 const mutations = {
84   ...
85 },
86
87 const mutations = {
88   ...
89 },
90
91 const mutations = {
92   ...
93 },
94
95 const mutations = {
96   ...
97 },
98
99 const mutations = {
100   ...
101 },
102
103 const mutations = {
104   ...
105 },
106
107 const mutations = {
108   ...
109 },
110
111 const mutations = {
112   ...
113 },
114
115 const mutations = {
116   ...
117 },
118
119 const mutations = {
120   ...
121 },
122
123 const mutations = {
124   ...
125 },
126
127 const mutations = {
128   ...
129 },
130
131 const mutations = {
132   ...
133 },
134
135 const mutations = {
136   ...
137 },
138
139 const mutations = {
140   ...
141 },
142
143 const mutations = {
144   ...
145 },
146
147 const mutations = {
148   ...
149 },
150
151 const mutations = {
152   ...
153 },
154
155 const mutations = {
156   ...
157 },
158
159 const mutations = {
160   ...
161 },
162
163 const mutations = {
164   ...
165 },
166
167 const mutations = {
168   ...
169 },
170
171 const mutations = {
172   ...
173 },
174
175 const mutations = {
176   ...
177 },
178
179 const mutations = {
180   ...
181 },
182
183 const mutations = {
184   ...
185 },
186
187 const mutations = {
188   ...
189 },
190
191 const mutations = {
192   ...
193 },
194
195 const mutations = {
196   ...
197 },
198
199 const mutations = {
200   ...
201 },
202
203 const mutations = {
204   ...
205 },
206
207 const mutations = {
208   ...
209 },
210
211 const mutations = {
212   ...
213 },
214
215 const mutations = {
216   ...
217 },
218
219 const mutations = {
220   ...
221 },
222
223 const mutations = {
224   ...
225 },
226
227 const mutations = {
228   ...
229 },
230
231 const mutations = {
232   ...
233 },
234
235 const mutations = {
236   ...
237 },
238
239 const mutations = {
240   ...
241 },
242
243 const mutations = {
244   ...
245 },
246
247 const mutations = {
248   ...
249 },
250
251 const mutations = {
252   ...
253 },
254
255 const mutations = {
256   ...
257 },
258
259 const mutations = {
260   ...
261 },
262
263 const mutations = {
264   ...
265 },
266
267 const mutations = {
268   ...
269 },
270
271 const mutations = {
272   ...
273 },
274
275 const mutations = {
276   ...
277 },
278
279 const mutations = {
280   ...
281 },
282
283 const mutations = {
284   ...
285 },
286
287 const mutations = {
288   ...
289 },
290
291 const mutations = {
292   ...
293 },
294
295 const mutations = {
296   ...
297 },
298
299 const mutations = {
300   ...
301 },
302
303 const mutations = {
304   ...
305 },
306
307 const mutations = {
308   ...
309 },
310
311 const mutations = {
312   ...
313 },
314
315 const mutations = {
316   ...
317 },
318
319 const mutations = {
320   ...
321 },
322
323 const mutations = {
324   ...
325 },
326
327 const mutations = {
328   ...
329 },
330
331 const mutations = {
332   ...
333 },
334
335 const mutations = {
336   ...
337 },
338
339 const mutations = {
340   ...
341 },
342
343 const mutations = {
344   ...
345 },
346
347 const mutations = {
348   ...
349 },
350
351 const mutations = {
352   ...
353 },
354
355 const mutations = {
356   ...
357 },
358
359 const mutations = {
360   ...
361 },
362
363 const mutations = {
364   ...
365 },
366
367 const mutations = {
368   ...
369 },
370
371 const mutations = {
372   ...
373 },
374
375 const mutations = {
376   ...
377 },
378
379 const mutations = {
380   ...
381 },
382
383 const mutations = {
384   ...
385 },
386
387 const mutations = {
388   ...
389 },
390
391 const mutations = {
392   ...
393 },
394
395 const mutations = {
396   ...
397 },
398
399 const mutations = {
400   ...
401 },
402
403 const mutations = {
404   ...
405 },
406
407 const mutations = {
408   ...
409 },
410
411 const mutations = {
412   ...
413 },
414
415 const mutations = {
416   ...
417 },
418
419 const mutations = {
420   ...
421 },
422
423 const mutations = {
424   ...
425 },
426
427 const mutations = {
428   ...
429 },
430
431 const mutations = {
432   ...
433 },
434
435 const mutations = {
436   ...
437 },
438
439 const mutations = {
440   ...
441 },
442
443 const mutations = {
444   ...
445 },
446
447 const mutations = {
448   ...
449 },
450
451 const mutations = {
452   ...
453 },
454
455 const mutations = {
456   ...
457 },
458
459 const mutations = {
460   ...
461 },
462
463 const mutations = {
464   ...
465 },
466
467 const mutations = {
468   ...
469 },
470
471 const mutations = {
472   ...
473 },
474
475 const mutations = {
476   ...
477 },
478
479 const mutations = {
480   ...
481 },
482
483 const mutations = {
484   ...
485 },
486
487 const mutations = {
488   ...
489 },
490
491 const mutations = {
492   ...
493 },
494
495 const mutations = {
496   ...
497 },
498
499 const mutations = {
500   ...
501 },
502
503 const mutations = {
504   ...
505 },
506
507 const mutations = {
508   ...
509 },
510
511 const mutations = {
512   ...
513 },
514
515 const mutations = {
516   ...
517 },
518
519 const mutations = {
520   ...
521 },
522
523 const mutations = {
524   ...
525 },
526
527 const mutations = {
528   ...
529 },
530
531 const mutations = {
532   ...
533 },
534
535 const mutations = {
536   ...
537 },
538
539 const mutations = {
540   ...
541 },
542
543 const mutations = {
544   ...
545 },
546
547 const mutations = {
548   ...
549 },
550
551 const mutations = {
552   ...
553 },
554
555 const mutations = {
556   ...
557 },
558
559 const mutations = {
560   ...
561 },
562
563 const mutations = {
564   ...
565 },
566
567 const mutations = {
568   ...
569 },
570
571 const mutations = {
572   ...
573 },
574
575 const mutations = {
576   ...
577 },
578
579 const mutations = {
580   ...
581 },
582
583 const mutations = {
584   ...
585 },
586
587 const mutations = {
588   ...
589 },
590
591 const mutations = {
592   ...
593 },
594
595 const mutations = {
596   ...
597 },
598
599 const mutations = {
600   ...
601 },
602
603 const mutations = {
604   ...
605 },
606
607 const mutations = {
608   ...
609 },
610
611 const mutations = {
612   ...
613 },
614
615 const mutations = {
616   ...
617 },
618
619 const mutations = {
620   ...
621 },
622
623 const mutations = {
624   ...
625 },
626
627 const mutations = {
628   ...
629 },
630
631 const mutations = {
632   ...
633 },
634
635 const mutations = {
636   ...
637 },
638
639 const mutations = {
640   ...
641 },
642
643 const mutations = {
644   ...
645 },
646
647 const mutations = {
648   ...
649 },
650
651 const mutations = {
652   ...
653 },
654
655 const mutations = {
656   ...
657 },
658
659 const mutations = {
660   ...
661 },
662
663 const mutations = {
664   ...
665 },
666
667 const mutations = {
668   ...
669 },
670
671 const mutations = {
672   ...
673 },
674
675 const mutations = {
676   ...
677 },
678
679 const mutations = {
680   ...
681 },
682
683 const mutations = {
684   ...
685 },
686
687 const mutations = {
688   ...
689 },
690
691 const mutations = {
692   ...
693 },
694
695 const mutations = {
696   ...
697 },
698
699 const mutations = {
700   ...
701 },
702
703 const mutations = {
704   ...
705 },
706
707 const mutations = {
708   ...
709 },
710
711 const mutations = {
712   ...
713 },
714
715 const mutations = {
716   ...
717 },
718
719 const mutations = {
720   ...
721 },
722
723 const mutations = {
724   ...
725 },
726
727 const mutations = {
728   ...
729 },
730
731 const mutations = {
732   ...
733 },
734
735 const mutations = {
736   ...
737 },
738
739 const mutations = {
740   ...
741 },
742
743 const mutations = {
744   ...
745 },
746
747 const mutations = {
748   ...
749 },
750
751 const mutations = {
752   ...
753 },
754
755 const mutations = {
756   ...
757 },
758
759 const mutations = {
760   ...
761 },
762
763 const mutations = {
764   ...
765 },
766
767 const mutations = {
768   ...
769 },
770
771 const mutations = {
772   ...
773 },
774
775 const mutations = {
776   ...
777 },
778
779 const mutations = {
780   ...
781 },
782
783 const mutations = {
784   ...
785 },
786
787 const mutations = {
788   ...
789 },
790
791 const mutations = {
792   ...
793 },
794
795 const mutations = {
796   ...
797 },
798
799 const mutations = {
800   ...
801 },
802
803 const mutations = {
804   ...
805 },
806
807 const mutations = {
808   ...
809 },
810
811 const mutations = {
812   ...
813 },
814
815 const mutations = {
816   ...
817 },
818
819 const mutations = {
820   ...
821 },
822
823 const mutations = {
824   ...
825 },
826
827 const mutations = {
828   ...
829 },
830
831 const mutations = {
832   ...
833 },
834
835 const mutations = {
836   ...
837 },
838
839 const mutations = {
840   ...
841 },
842
843 const mutations = {
844   ...
845 },
846
847 const mutations = {
848   ...
849 },
850
851 const mutations = {
852   ...
853 },
854
855 const mutations = {
856   ...
857 },
858
859 const mutations = {
860   ...
861 },
862
863 const mutations = {
864   ...
865 },
866
867 const mutations = {
868   ...
869 },
870
871 const mutations = {
872   ...
873 },
874
875 const mutations = {
876   ...
877 },
878
879 const mutations = {
880   ...
881 },
882
883 const mutations = {
884   ...
885 },
886
887 const mutations = {
888   ...
889 },
890
891 const mutations = {
892   ...
893 },
894
895 const mutations = {
896   ...
897 },
898
899 const mutations = {
900   ...
901 },
902
903 const mutations = {
904   ...
905 },
906
907 const mutations = {
908   ...
909 },
910
911 const mutations = {
912   ...
913 },
914
915 const mutations = {
916   ...
917 },
918
919 const mutations = {
920   ...
921 },
922
923 const mutations = {
924   ...
925 },
926
927 const mutations = {
928   ...
929 },
930
931 const mutations = {
932   ...
933 },
934
935 const mutations = {
936   ...
937 },
938
939 const mutations = {
940   ...
941 },
942
943 const mutations = {
944   ...
945 },
946
947 const mutations = {
948   ...
949 },
950
951 const mutations = {
952   ...
953 },
954
955 const mutations = {
956   ...
957 },
958
959 const mutations = {
960   ...
961 },
962
963 const mutations = {
964   ...
965 },
966
967 const mutations = {
968   ...
969 },
970
971 const mutations = {
972   ...
973 },
974
975 const mutations = {
976   ...
977 },
978
979 const mutations = {
980   ...
981 },
982
983 const mutations = {
984   ...
985 },
986
987 const mutations = {
988   ...
989 },
990
991 const mutations = {
992   ...
993 },
994
995 const mutations = {
996   ...
997 },
998
999 const mutations = {
1000   ...
1001 },
1002
1003 const mutations = {
1004   ...
1005 },
1006
1007 const mutations = {
1008   ...
1009 },
1010
1011 const mutations = {
1012   ...
1013 },
1014
1015 const mutations = {
1016   ...
1017 },
1018
1019 const mutations = {
1020   ...
1021 },
1022
1023 const mutations = {
1024   ...
1025 },
1026
1027 const mutations = {
1028   ...
1029 },
1030
1031 const mutations = {
1032   ...
1033 },
1034
1035 const mutations = {
1036   ...
1037 },
1038
1039 const mutations = {
1040   ...
1041 },
1042
1043 const mutations = {
1044   ...
1045 },
1046
1047 const mutations = {
1048   ...
1049 },
1050
1051 const mutations = {
1052   ...
1053 },
1054
1055 const mutations = {
1056   ...
1057 },
1058
1059 const mutations = {
1060   ...
1061 },
1062
1063 const mutations = {
1064   ...
1065 },
1066
1067 const mutations = {
1068   ...
1069 },
1070
1071 const mutations = {
1072   ...
1073 },
1074
1075 const mutations = {
1076   ...
1077 },
1078
1079 const mutations = {
1080   ...
1081 },
1082
1083 const mutations = {
1084   ...
1085 },
1086
1087 const mutations = {
1088   ...
1089 },
1090
1091 const mutations = {
1092   ...
1093 },
1094
1095 const mutations = {
1096   ...
1097 },
1098
1099 const mutations = {
1100   ...
1101 },
1102
1103 const mutations = {
1104   ...
1105 },
1106
1107 const mutations = {
1108   ...
1109 },
1110
1111 const mutations = {
1112   ...
1113 },
1114
1115 const mutations = {
1116   ...
1117 },
1118
1119 const mutations = {
1120   ...
1121 },
1122
1123 const mutations = {
1124   ...
1125 },
1126
1127 const mutations = {
1128   ...
1129 },
1130
1131 const mutations = {
1132   ...
1133 },
1134
1135 const mutations = {
1136   ...
1137 },
1138
1139 const mutations = {
1140   ...
1141 },
1142
1143 const mutations = {
1144   ...
1145 },
1146
1147 const mutations = {
1148   ...
1149 },
1150
1151 const mutations = {
1152   ...
1153 },
1154
1155 const mutations = {
1156   ...
1157 },
1158
1159 const mutations = {
1160   ...
1161 },
1162
1163 const mutations = {
1164   ...
1165 },
1166
1167 const mutations = {
1168   ...
1169 },
1170
1171 const mutations = {
1172   ...
1173 },
1174
1175 const mutations = {
1176   ...
1177 },
1178
1179 const mutations = {
1180   ...
1181 },
1182
1183 const mutations = {
1184   ...
1185 },
1186
1187 const mutations = {
1188   ...
1189 },
1190
1191 const mutations = {
1192   ...
1193 },
1194
1195 const mutations = {
1196   ...
1197 },
1198
1199 const mutations = {
1200   ...
1201 },
1202
1203 const mutations = {
1204   ...
1205 },
1206
1207 const mutations = {
1208   ...
1209 },
1210
1211 const mutations = {
1212   ...
1213 },
1214
1215 const mutations = {
1216   ...
1217 },
1218
1219 const mutations = {
1220   ...
1221 },
1222
1223 const mutations = {
1224   ...
1225 },
1226
1227 const mutations = {
1228   ...
1229 },
1230
1231 const mutations = {
1232   ...
1233 },
1234
1235 const mutations = {
1236   ...
1237 },
1238
1239 const mutations = {
1240   ...
1241 },
1242
1243 const mutations = {
1244   ...
1245 },
1246
1247 const mutations = {
1248   ...
1249 },
1250
1251 const mutations = {
1252   ...
1253 },
1254
1255 const mutations = {
1256   ...
1257 },
1258
1259 const mutations = {
1260   ...
1261 },
1262
1263 const mutations = {
1264   ...
1265 },
1266
1267 const mutations = {
1268   ...
1269 },
1270
1271 const mutations = {
1272   ...
1273 },
1274
1275 const mutations = {
1276   ...
1277 },
1278
1279 const mutations = {
1280   ...
1281 },
1282
1283 const mutations = {
1284   ...
1285 },
1286
1287 const mutations = {
1288   ...
1289 },
1290
1291 const mutations = {
1292   ...
1293 },
1294
1295 const mutations = {
1296   ...
1297 },
1298
1299 const mutations = {
1300   ...
1301 },
1302
1303 const mutations = {
1304   ...
1305 },
1306
1307 const mutations = {
1308   ...
1309 },
1310
1311 const mutations = {
1312   ...
1313 },
1314
1315 const mutations = {
1316   ...
1317 },
1318
1319 const mutations = {
1320   ...
1321 },
1322
1323 const mutations = {
1324   ...
1325 },
1326
1327 const mutations = {
1328   ...
1329 },
1330
1331 const mutations = {
1332   ...
1333 },
1334
1335 const mutations = {
1336   ...
1337 },
1338
1339 const mutations = {
1340   ...
1341 },
1342
1343 const mutations = {
1344   ...
1345 },
1346
1347 const mutations = {
1348   ...
1349 },
1350
1351 const mutations = {
1352   ...
1353 },
1354
1355 const mutations = {
1356   ...
1357 },
1358
1359 const mutations = {
1360   ...
1361 },
1362
1363 const mutations = {
1364   ...
1365 },
1366
1367 const mutations = {
1368   ...
1369 },
1370
1371 const mutations = {
1372   ...
1373 },
1374
1375 const mutations = {
1376   ...
1377 },
1378
1379 const mutations = {
1380   ...
1381 },
1382
1383 const mutations = {
1384   ...
1385 },
1386
1387 const mutations = {
1388   ...
1389 },
1390
1391 const mutations = {
1392   ...
1393 },
1394
1395 const mutations = {
1396   ...
1397 },
1398
1399 const mutations = {
1400   ...
1401 },
1402
1403 const mutations = {
1404   ...
1405 },
1406
1407 const mutations = {
1408   ...
1409 },
1410
1411 const mutations = {
1412   ...
1413 },
1414
1415 const mutations = {
1416   ...
1417 },
1418
1419 const mutations = {
1420   ...
1421 },
1422
1423 const mutations = {
1424   ...
1425 },
1426
1427 const mutations = {
1428   ...
1429 },
1430
1431 const mutations = {
1432   ...
1433 },
1434
1435 const mutations = {
1436   ...
1437 },
1438
1439 const mutations = {
1440   ...
1441 },
1442
1443 const mutations = {
1444   ...
1445 },
1446
1447 const mutations = {
1448   ...
1449 },
1450
1451 const mutations = {
1452   ...
1453 },
1454
1455 const mutations = {
1456   ...
1457 },
1458
1459 const mutations = {
1460   ...
1461 },
1462
1463 const mutations = {
1464   ...
1465 },
1466
1467 const mutations = {
1468   ...
1469 },
1470
1471 const mutations = {
1472   ...
1473 },
1474
1475 const mutations = {
1476   ...
1477 },
1478
1479 const mutations = {
1480   ...
1481 },
1482
1483 const mutations = {
1484   ...
1485 },
1486
1487 const mutations = {
1488   ...
1489 },
1490
1491 const mutations = {
1492   ...
1493 },
1494
1495 const mutations = {
1496   ...
1497 },
1498
1499 const mutations = {
1500   ...
1501 },
1502
1503 const mutations = {
1504   ...
1505 },
1506
1507 const mutations = {
1508   ...
1509 },
1510
1511 const mutations = {
1512   ...
1513 },
1514
1515 const mutations = {
1516   ...
1517 },
1518
1519 const mutations = {
1520   ...
1521 },
1522
1523 const mutations = {
1524   ...
1525 },
1526
1527 const mutations = {
1528   ...
1529 },
1530
1531 const mutations = {
1532   ...
1533 },
1534
1535 const mutations = {
1536   ...
1537 },
1538
1539 const mutations = {
1540   ...
1541 },
1542
1543 const mutations = {
1544   ...
1545 },
1546
1547 const mutations = {
1548   ...
1549 },
1550
1551 const mutations = {
1552   ...
1553 },
1554
1555 const mutations = {
1556   ...
1557 },
1558
1559 const mutations = {
1560   ...
1561 },
1562
1563 const mutations = {
1564   ...
1565 },
1566
1567 const mutations = {
1568   ...
1569 },
1570
1571 const mutations = {
1572   ...
1573 },
1574
1575 const mutations = {
1576   ...
1577 },
1578
1579 const mutations = {
1580   ...
1581 },
1582
1583 const mutations = {
1584   ...
1585 },
1586
1587 const mutations = {
1588   ...
1589 },
1590
1591 const mutations = {
1592   ...
1593 },
1594
1595 const mutations = {
1596   ...
1597 },
1598
1599 const mutations = {
1600   ...
1601 },
1602
1603 const mutations = {
1604   ...
1605 },
1606
1607 const mutations = {
1608   ...
1609 },
1610
1611 const mutations = {
1612   ...
1613 },
1614
1615 const mutations = {
1616   ...
1617 },
1618
1619 const mutations = {
1620   ...
1621 },
1622
1623 const mutations = {
1624   ...
1625 },
1626
1627 const mutations = {
1628   ...
1629 },
1630
1631 const mutations = {
1632   ...
1633 },
1634
1635 const mutations = {
1636   ...
1637 },
1638
1639 const mutations = {
1640   ...
1641 },
1642
1643 const mutations = {
1644   ...
1645 },
1646
1647 const mutations = {
1648   ...
1649 },
1650
1651 const mutations = {
1652   ...
1653 },
1654
1655 const mutations = {
1656   ...
1657 },
1658
1659 const mutations = {
1660   ...
1661 },
1662
1663 const mutations = {
1664   ...
1665 },
1666
1667 const mutations = {
1668   ...
1669 },
1670
1671 const mutations = {
1672   ...
1673 },
1674
1675 const mutations = {
1676   ...
1677 },
1678
1679 const mutations = {
1680   ...
1681 },
1682
1683 const mutations = {
1684   ...
1685 },
1686
1687 const mutations = {
1688   ...
1689 },
1690
1691 const mutations = {
1692   ...
1693 },
1694
1695 const mutations = {
1696   ...
1697 },
1698
1699 const mutations = {
1700   ...
1701 },
1702
1703 const mutations = {
1704   ...
1705 },
1706
1707 const mutations = {
1708   ...
1709 },
1710
1711 const mutations = {
1712   ...
1713 },
1714
1715 const mutations = {
1716   ...
1717 },
1718
1719 const mutations = {
1720   ...
1721 },
1722
1723 const mutations = {
1724   ...
1725 },
1726
1727 const mutations = {
1728   ...
1729 },
1730
1731 const mutations = {
1732   ...
1733 },
1734
1735 const mutations = {
1736   ...
1737 },
1738
1739 const mutations = {
1740   ...
1741 },
1742
1743 const mutations = {
1744   ...
1745 },
1746
1747 const mutations = {
1748   ...
1749 },
1750
1751 const mutations = {
1752   ...
1753 },
1754
1755 const mutations = {
1756   ...
1757 },
1758
1759 const mutations = {
1760   ...
1761 },
1762
1763 const mutations = {
1764   ...
1765 },
1766
1767 const mutations = {
1768   ...
1769 },
1770
1771 const mutations = {
1772   ...
1773 },
1774
1775 const mutations = {
1776   ...
1777 },
1778
1779 const mutations = {
1780   ...
1781 },
1782
1783 const mutations = {
1784   ...
1785 },
1786
1787 const mutations = {
1788   ...
1789 },
1790
1791 const mutations = {
1792   ...
1793 },
1794
1795 const mutations = {
1796   ...
1797 },
1798
1799 const mutations = {
1800   ...
1801 },
1802
1803 const mutations = {
1804   ...
1805 },
1806
1807 const mutations = {
1808   ...
1809 },
1810
1811 const mutations = {
1812   ...
1813 },
1814
1815 const mutations = {
1816   ...
1817 },
1818
1819 const mutations = {
1820   ...
1821 },
1822
1823 const mutations = {
1824   ...
1825 },
1826
1827 const mutations = {
1828   ...
1829 },
1830
1831 const mutations = {
1832   ...
1833 },
1834
1835 const mutations = {
1836   ...
1837 },
1838
1839 const mutations = {
1840   ...
1841 },
1842
1843 const mutations = {
1844   ...
1845 },
1846
1847 const mutations = {
1848   ...
1849 },
1850
1851 const mutations = {
1852   ...
1853 },
1854
1855 const mutations = {
1856   ...
1857 },
1858
1859 const mutations = {
1860   ...
1861 },
1862
1863 const mutations = {
1864   ...
1865 },
1866
1867 const mutations = {
1868   ...
1869 },
1870
1871 const mutations = {
1872   ...
1873 },
1874
1875 const mutations = {
1876   ...
1877 },
1878
1879 const mutations = {
1880   ...
1881 },
1882
1883 const mutations = {
1884   ...
1885 },
1886
1887 const mutations = {
1888   ...
1889 },
1890
1891 const mutations = {
1892   ...
1893 },
1894
1895 const mutations = {
1896   ...
1897 },
1898
1899 const mutations = {
1900   ...
1901 },
1902
1903 const mutations = {
1904   ...
1905 },
1906
1907 const mutations = {
1908   ...
1909 },
1910
1911 const mutations = {
1912   ...
1913 },
1914
1915 const mutations = {
1916   ...
1917 },
1918
1919 const mutations = {
1920   ...
1921 },
1922
1923 const mutations = {
1924   ...
1925 },
1926
1927 const mutations = {
1928   ...
1929 },
1930
1931 const mutations = {
1932   ...
1933 },
1934
1935 const mutations = {
1936   ...
1937 },

```