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<b>Platform</b>	S60 2nd Edition, S60 3rd Edition, S60 5th Edition	<b>Tested on devices</b>	Nokia N95, Nokia E90
<b>Category</b>	M	<b>Subcategory</b>	PIM

**Keywords (APIs, classes, methods, functions):** contacts

## Overview

This article shows how to add, find and delete contacts in m.

## Preconditions

**Note:** The add and delete functions require the WriteApp permission. The find and get functions require the ReadApp permission.

## Source code

### Adding a contact

```
use contacts
```

```
//Create a contact as an array of key-value pairs
```

```
my_contact = ["name":"Doe", "fname":"John", "phone":"1234567890", "email":"john.doe@company.com"]
```

```
//Add it to the database
```

```
contacts.add(my_contact)
```

### Finding contacts

```
use contacts
```

```
//Get the ids of the contacts that match the criteria
```

```
ids = contacts.find("John Doe", ["fname", "name"])
```

```
//Get the corresponding contact objects and display all their information
```

```
for id in ids do
```

```
    my_contact = contacts.get(id);
```

```
    for i in keys(my_contact) do
```

```
        print contacts.labels()[i] + ": " + my_contact[i]
```

```
    end;
```

end

### Deleting contacts

```
use contacts

//Get the ids of the contacts that match the criteria
ids = contacts.find("John Doe", ["fname", "name"])

//Delete them all
for id in ids do
  contacts.delete(id)
end
```

### Postconditions

Contacts are added, found or deleted.

### Additional information

Details about the functions used in the snippets above and others are available in the m library.