

```
sum [] = 0
```

```
sum (x:xs) = x + xs
```

4



The expression **xs** can have two conflicting types

## Conflicting types

Possible type 1

**xs** :: **[a]**

*Inferred from the orange highlights on the left side*

Possible type 2

**xs** :: **Int**

3

*Inferred from the blue highlights on the left side*

## Relevant type information

**+** :: **Int** → **Int** → **Int**

*Imported from prelude*