

```
sum [] = 0
```

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



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
```

*Inferred from the blue highlights on the left side*

## Relevant type information

```
+ :: Int → Int → Int
```

*Imported from prelude*