

```
sum [] = 0
```



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

```
isEven x = x `div` 2 == 0
```

```
sumEvens l =
```

```
  let evens = filter isEven
```

```
  in sum evens
```

 is defined as  (step )



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



sum

1 2 3 4

evens

5 6 7



Conflicting types

Possible type 1

evens :: **[Int]**

Inferred from the orange highlights on the left side

Possible type 2

evens :: **[Int]→[Int]**

Inferred from the blue highlights on the left side

Relevant type information

sum :: **[Int] → Int**

Inferred from the orange highlights on the left side

filter :: **(a→Bool)→[a]→[a]**

Imported from prelude