

First Comparision: Java - Haskell

Summing the integers 1 to 10 in Java:

Assignment Project Exam Help

```
total = 0;  
for (i = 1; i <= 10; ++i)  
    total = total+i;
```

The computation method is variable assignment.

First comparison: Java - Haskell

Summing the integers 1 to 10 in Haskell:

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```
sum [1..10]
```

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The computation method is function application.
[Better examples to come.]

A Taste of Haskell

```
f [] = []
```

```
f (x:xs) = f ys ++ [x] ++ f zs
```

where

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```
ys = [a | a ← xs, a ≤ x]
```

```
zs = [b | b ← xs, b > x]
```

?

Here two simpler programs:

```
double :: Int -> Int
```

```
double x = x + x
```

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Here two simpler programs:

```
average :: Float -> Float -> Float
average x y = (x + y) / 2
```

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