

Introduction

Some simple ideas, and questions that I have about implementation and the language that I'm interested in designing.

Idea (Come back to this lol)

conditionals as variables... using the keyword `cond` to indicate a conditional type

```
// this is bounding each naming to a reusable condition
cond {xGreaterThanYReturnX | yGreaterThanXReturnY | xAndYAreEqual} =
  | (x > y) => x // binds x to this condition - and you can only use x
  | (x < y) => y
  | (x == y) => x;
```

```
/**
 * Potentially better solution for the conditional expression
 */
const values = [1, 2, 3, 4, 5, 6, 7];
```

```
cond {xGreaterThanYReturnX | yGreaterThanXReturnY | xAndYAreEqual} =
  | (x > y) => x & y;
  | (x < y) => y;
  | (x == y) => x;
```

```
// How to use the Condition Expression
xGreaterThanYReturnX(x = 5, y = 20) => {
  .
  <statement>
  .
}; // This will not execute x < y
```

```
yGreaterThanXReturnY(x = 5, y = 20) => {
  .
  <statement>
  .
}; // This will not execute x < y
```

```
// or if you have an expression already
const comparison x y => x = 10 ^ y = 20;

xGreaterThanYReturnX(comparison) => {
  .
  <statement>
  .
} else { // Will execute else condition in this case, 10 < 20
  .
  <statement>
  .
};
```

```
// feeling cool? Let's match these conditions:
```

```
const checkTwoNumbers x y = () => {  
  match (...) { // (...) means all inputs being passed as arguments.  
    | xGreaterThanYReturnX => x + 15; // whatever the value is of x + 15  
    | yGreaterThanXReturnY => y + 15; // whatever the value is of y + 15  
    | xAndYAreEqual => x + y + 15; // whatever the total value is + 15  
  }  
}
```

Potential typing ideas

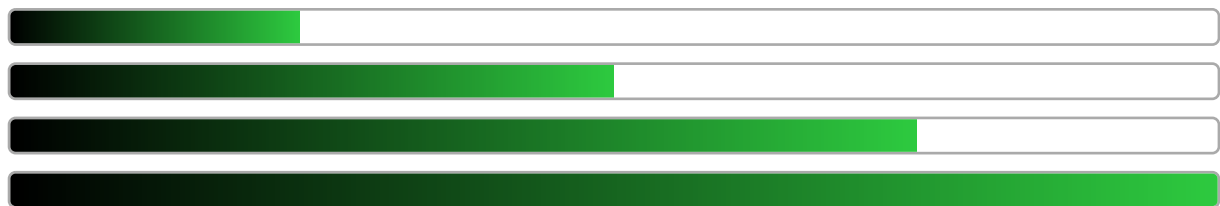
```
const checkTwoNumbers x y = (int, int) => {  
  match (...) { // (...) means all inputs being passed as arguments.  
    | xGreaterThanYReturnX => x + 15; // whatever the value is of x + 15  
    | yGreaterThanXReturnY => y + 15; // whatever the value is of y + 15  
    | xAndYAreEqual => x + y + 15; // whatever the total value is + 15  
  }  
}
```

```
// That way in the future if we do parametric polymorphism It might not be messy?
```

```
const checkTwoNumbers x y = (N, M) => {  
  match (...) { // (...) means all inputs being passed as arguments.  
    | xGreaterThanYReturnX => x + 15; // whatever the value is of x + 15  
    | yGreaterThanXReturnY => y + 15; // whatever the value is of y + 15  
    | xAndYAreEqual => x + y + 15; // whatever the total value is + 15  
  }  
}
```

=question

F_1	F_2	F_3	F_4	F_5	F_6	F_7	F_8
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something

- ☐ Write code
- ☐ Test code
- ☐ Ship code