

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 {xGreaterThanOrEqualYReturnX | yGreaterThanOrEqualXReturnY | 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 {xGreaterThanOrEqualYReturnX | yGreaterThanOrEqualXReturnY | xAndYAreEqual} =
  | (x > y) => x & y;
  | (x < y) => y;
  | (x == y) => x;

// How to use the Condition Expression
xGreaterThanOrEqualYReturnX(x = 5, y = 20) => {
  .
  <statement>
}

}; // This will not execute x < y

yGreaterThanOrEqualXReturnY(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;

xGreaterThanOrEqualYReturnX(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

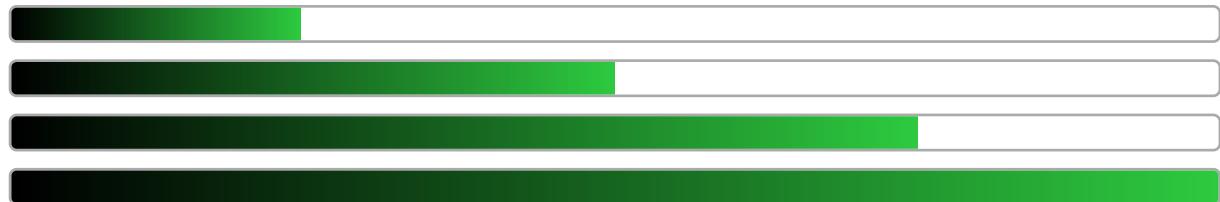
```
const checkTwoNumbers x y = (int, int) => {
  match (...) { // (...) means all inputs being passed as arguments.
    | xGreaterThanYReturnX => x + 15; // whatever the value is of x + 15
    | yGreaterThanXReturnY => y + 15; // whatever the value is of y + 15
    | xAndYAreEqual => x + y + 15; //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