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Completed (20)
Unfinished
Obsolete

4kyu Range Extraction

```
JavaScript:
function solution(list){
  let aRanges = []; // массив интервалов
  for (let from = list[0], to = list[0]; // первый элемент может оказаться и началом, и концом интервала
    for (let i = 1; i < list.length; i++) { // если очередное число оказалось не ближе, чем по порядку
    if ((list[i] - list[i-1]) > 1) { // добавляет очередной интервал из предыдущих чисел в массив
      aRanges.push([from, to]); // текущее число становится началом нового интервала
      from = list[i]; // и одновременно его концом
    } else { // а если интервал продолжается
      to = list[i]; // текущее число становится концом интервала
    }
    if (i === list.length - 1) { // если же текущий элемент является последним в исходном массиве
      aRanges.push([from, list[i]]); // добавляет последний интервал в массив интервалов
    }
  }

  let aS = [];
  for (let range of aRanges) {
    if (range[0] === range[1]) {
      aS.push(range[0]);
    } else if (range[1] - range[0] === 1) {
      aS.push(range[0]);
      aS.push(range[1]);
    } else {
      aS.push(range[0] + '-' + range[1]);
    }
  }
  return aS.join(', ');
}
```

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3kyu The Hashtag Generator

```
JavaScript:
function generateHashtag(str) {
  if (str.trim().length == 0) {
    return false;
  }
  str = str.trim();
  let arr = str.split(/ /g).map(value => value[0].toUpperCase() + value.slice(1));
  str = '#' + arr.join('');
  if (str.length > 140) {
    return false;
  } else {
    return str;
  }
}
```

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3kyu PaginationHelper

```
JavaScript:
class PaginationHelper {
  constructor(items, n) {
    this.items = items;
    this.itemsPerPage = n;
  }

  pageCount() { return Math.ceil(this.items.length / this.itemsPerPage); }
  itemCount() { return this.items.length; }
  pageItemCount(pageIndex) {
    if (pageIndex >= this.pageCount() || pageIndex < 0) {
      return -1;
    } else if (pageIndex == this.pageCount() - 1) {
      return this.items.length % this.itemsPerPage;
    } else {
      return this.itemsPerPage;
    }
  }
  pageIndex(itemIndex) {
    if (itemIndex >= this.items.length || itemIndex < 0) {
      return -1;
    } else {
      return Math.floor(itemIndex / this.itemsPerPage);
    }
  }
}
```

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3kyu Regex Password Validation

```
JavaScript:
function validate(password) {
  return /^(?=[^a-zA-Z0-9]{8,})$/i.test(password) && /(?=.*[a-z])(?=.*[A-Z])(?=.*\d)/.test(password) && /(?=.*[^\s])/i.test(password);
}
```

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3kyu Pete, the baker

```
JavaScript:
function cakes(recipe, available) {
  for (let key in recipe) {
    if (!available.hasOwnProperty(key)) {
      available[key] = 0;
    }
  }
  for (let key in available) {
    if (!recipe.hasOwnProperty(key)) {
      recipe[key] = 0;
    }
  }
  let anCakes = [];
  for (let key in recipe) {
    if (available[key] === 0) {
      if (recipe[key] !== 0) {
        return 0;
      }
    } else {
      if (recipe[key] !== 0) {
        anCakes.push(available[key] / recipe[key]);
      }
    }
  }
  return Math.floor(Math.min(...anCakes));
}
```

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3kyu What's a Perfect Power anyway?

```
JavaScript:
function isPP(n) {
  if (n > 0 && n % 1 === 0) {
    for (let k = 2; k < n; k++) {
      for (let m = 2; m < n; m++) {
        if ((k ** m) === n) {
          return [k, m];
        } else if ((k ** m) > n) {
          break;
        }
      }
    }
    return null;
  } else {
    return null;
  }
}
```

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3kyu Calculating with Functions

```
JavaScript:
function num(n, arr) {
  if (arr === undefined) {
    return n;
  } else {
    let n = arr[0], op = arr[1];
    switch (op) {
      case '+': return n + n; break;
      case '-': return n - n; break;
      case '*': return n * n; break;
      case '/': return Math.floor(n / n); break;
    }
  }
}
function zero(n, op) { return num(0, n, op); }
function one(n, op) { return num(1, n, op); }
function two(n, op) { return num(2, n, op); }
function three(n, op) { return num(3, n, op); }
function four(n, op) { return num(4, n, op); }
function five(n, op) { return num(5, n, op); }
function six(n, op) { return num(6, n, op); }
function seven(n, op) { return num(7, n, op); }
function eight(n, op) { return num(8, n, op); }
function nine(n, op) { return num(9, n, op); }

function plus(n) { return [n, '+']; }
function minus(n) { return [n, '-']; }
function times(n) { return [n, '*']; }
function dividedBy(n) { return [n, '/']; }
```

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3kyu Valid Parentheses

```
JavaScript:
function validParentheses(parens){
  if (parens === '') {
    return true;
  }
  let arr = parens.match(/[\(\)]/g);
  if (!Array.isArray(arr) || arr.length > 100) {
    return false;
  }
  let nD = 0, nC = 0;
  for (el of arr) {
    if (el === '(') {
      nD++;
    } else if (el === ')') {
      nC++;
    }
    if (nC > nD) {
      return false;
    }
  }
  if (nD === nC) {
    return true;
  } else {
    return false;
  }
}
```

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6kyu Build a pile of Cubes

```
JavaScript:
function findNb(n) {
  let sum = 0;
  for (let i = 1; i++; ) {
    sum += i * i * i;
    if (sum == n) {
      return i;
    } else if (sum > n) {
      return -1;
    }
  }
}
```

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6kyu Bit Counting

```
JavaScript:
var countBits = function(n) {
  return n.toString(2).split('').filter(e => e === '1').length;
};
```

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6kyu Array diff

```
JavaScript:
function arrayDiff(a, b) {
  return a
    .filter(
      elem => !b.filter(
        (value, index, arr) => arr.indexOf(value) === index
      ).includes(elem));
}
```

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6kyu Your order, please

```
JavaScript:
function order(words){
  if (words === '') {
    return '';
  }
  let arr = [];
  let arrW = words.split(' ');
  let arrN = arrW.map(word => word.match(/[0-9]/));
  for (let i = 0; i < arrW.length; i++) {
    let obj = {};
    obj[arrN[i]] = arrW[i];
    arr.push(obj);
  }
  arr.sort((a, b) => +Object.keys(a)[0] - +Object.keys(b)[0]);
  let result = '';
  arr = arr.map(elem => Object.values(elem)[0]);
  return arr.join(' ');
}
```

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6kyu Bouncing Balls

```
JavaScript:
function bouncingBall(h, bounce, window) {
  if (h < 0 || bounce <= 0 || bounce >= 1 || window >= h) {
    return -1;
  }
  let n = -1;
  do {
    n++;
    h *= bounce;
  } while (h > window);
  return n;
}
```

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6kyu Split Strings

```
JavaScript:
function solution(s){
  let pairs = [];
  if (s.length % 2 > 0) {
    s += '-';
  }
  for (let i = 0; i < s.length; i = i + 2) {
    pairs.push(s.substr(i, 2));
  }
  return pairs;
}
```

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6kyu RGB To Hex Conversion

```
JavaScript:
function rgb(r, g, b){
  r = '' + 0 + Math.round(Math.max(0, Math.min(255, r))).toString(16);
  g = '' + 0 + Math.round(Math.max(0, Math.min(255, g))).toString(16);
  b = '' + 0 + Math.round(Math.max(0, Math.min(255, b))).toString(16);
  return (r.slice(-2) + g.slice(-2) + b.slice(-2)).toUpperCase();
}
```

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