

**HomeWork 3**

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Link of Repl it

<https://repl.it/@Rawandgaradh/PoisedWearablePup>

اذا ما فتح الرابط

var item =[

    {

        "id": "0001",

        "type": "donut",

        "name": "Cake",

        "ppu":0.78,

        "batters":

            {

                "batter":

                    [

                        { "id": "1001", "type": "Regular" },

                        { "id": "1002", "type": "Chocolate" },

                        { "id": "1003", "type": "Blueberry" },

                        { "id": "1004", "type": "Devil's Food" }

                    ]

            },

        "topping":

            [

                { "id": "5001", "type": "None" },

                { "id": "5002", "type": "Glazed" },

                { "id": "5005", "type": "Sugar" },

                { "id": "5007", "type": "Powdered Sugar" },

                { "id": "5006", "type": "Chocolate with Sprinkles" },

                { "id": "5003", "type": "Chocolate" },

                { "id": "5004", "type": "Maple" }

            ]

    },

    {

        "id": "0002",

        "type": "donut",

        "name": "Raised",

        "ppu": 0.55,

        "batters":

            {

                "batter":

                    [

                        { "id": "1001", "type": "Regular" }

                    ]

            },

        "topping":

            [

                { "id": "5001", "type": "None" },

                { "id": "5002", "type": "Glazed" },

                { "id": "5005", "type": "Sugar" },

                { "id": "5003", "type": "Chocolate" },

                { "id": "5004", "type": "Maple" }

            ]

    },

    {

        "id": "0003",

        "type": "donut",

        "name": "Old Fashioned",

        "ppu":0.26,

        "batters":

            {

                "batter":

                    [

                        { "id": "1001", "type": "Regular" },

                        { "id": "1002", "type": "Chocolate" }

                    ]

            },

        "topping":

            [

                { "id": "5001", "type": "None" },

                { "id": "5002", "type": "Glazed" },

                { "id": "5003", "type": "Chocolate" },

                { "id": "5004", "type": "Maple" }

            ]

    }

]

  function butters(){

    for(let i=0 ;i<item.length ; i++){

      var better = item[i].batters.batter;

      for(let j=0 ; j<better.length ; j++){

        console.log(better[j].type)

      }

    }

  }

 function topping(){

    for(let i=0 ;i<item.length ; i++){

      var topping = item[i].topping;

      for(let j=0 ; j<topping.length ; j++){

        console.log(topping[j].type)

      }

    }

  }

function avarge(){

  array = []

  let y=0;

  for(let i =0 ;i<item.length ; i++){

    var x= array.push(item[i].ppu)

    for(let j=0 ;j<array.length ; j++){

      y += array[j]/array.length

    }

  }

  console.log(y)

}

function sum(){

  let i = 0

  for(let a=0 ; a<item.length ; a++){

    i += item[a]

  }

  console.log(i)

}

function allId(){

  item.forEach(

   items=> console.log(items.id)

  )

 item.forEach(items=>items.batters.batter.forEach(batterItem => console.log(batterItem.id)))

 item.forEach(items=>items.topping.forEach(toppingItem => console.log(toppingItem.id)))

}

butters();

topping();

avarge();

sum();

allId();