Hack Heist: Puzzler’s Puzzles

Complete these puzzles to reveal the combination and attain the Puzzler’s Key.

## The First Number

**(29, 20), (32, 11), (11, 37), (31, 37), (25, 23), (6, 10),**

**(13, 30), (7, 9), (20, 37), (28, 21), (12, 5), (30, 8), (27, 6)**

**(24, 4), (14, 4), (18, 3), (12, 37), (19, 3), (25, 5), (26, 37)**

**(7, 36), (30, 18), (15, 29), (33, 37), (18, 27), (31, 16),**

**(14, 37), (25, 37), (23, 37), (23, 4), (14, 29), (27, 37),**

**(31, 9), (8, 34), (21, 3), (9, 37), (17, 3), (13, 4), (24, 37),**

**(32, 37), (7, 35), (10, 6), (8, 37), (16, 28), (28, 37), (11, 5),**

**(26, 22), (29, 7), (10, 32), (22, 3), (28, 6), (17, 37), (24, 23),**

**(9, 33), (12, 31), (9, 7), (20, 26), (22, 37), (23, 24), (7, 37),**

**(32, 14), (15, 37), (27, 22), (32, 13), (21, 25), (21, 37), (32, 15),**

**(18, 37), (31, 10), (29, 37), (11, 31), (8, 8), (19, 26), (15, 3),**

**(30, 37), (31, 17), (32, 12), (20, 3), (30, 19), (19, 37), (13, 37),**

**(26, 5), (10, 37), (17, 27), (16, 3), (16, 37), (22, 25)**

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## The Second Number

let calc = function (start) {

  if (start < 0) {

    return () => 0;

  }

  let add = function (a, b) {

    return a + b;

  };

  if (start === 0) {

    return add;

  } else {

    let nextResult = calc(start-1);

    return function (x, y) {

      return add(start, nextResult(x, y));

    };

  }

}

let calculator = calc(3);

let num = calculator(2, -1);

console.log(num);

## The Third Number

Fa eaxhq ftue bgllxq, kag iuxx tmhq fa geq m DAF-12 Oubtqd. Ftmf yqmze kag tmhq fa DAFmfq qmot xqffqd mdagzp ftq mxbtmnqf fiqxhq ebmoqe: ea M nqoayqe Y, N nqoayqe Z, mzp ea az. Pqoapuzs ftue yqeemsq iuxx fqxx kag ftmf ftq ftudp zgynqd rad ftq oaynuzmfuaz ue zuzq. Ftqdq'e eayq aftqd qjfdm fqjf tqdq faa, vgef fa nq mzzakuzs mnagf uf. Mzp eayq sunnqduet faa: iaurv qiuartauinh gcicq uqp.

## The Fourth Number

Caitlin always lies on Monday, Tuesday, and Wednesday, but tells the truth on every other day. Emi always lies on Thursday, Friday, and Saturday, but tells the truth on every other day. Caitlin says: "Yesterday I was lying." Emi says: "So was I." What day is it?