# [CS 11] Prac 11i – Meet the Maker

## Problem Statement

Consider the following Python code:

```
from random import sample, shuffle

def make(v, n, agg):
    a = sample(range(v), n)
    shuffle(a)
    a += [agg(x, y) for (x, y) in zip(a, a[1:] + a[:1])]
    shuffle(a)
    return a
```

A sequence will be given to you, generated by either snippet A or B:

- Snippet A is the function call `make(1000, 100, min)`
- Snippet B is the function call `make(1000, 100, max)`

Determine if the sequence is generated by snippet A or B.

## Task Details

Your task is to implement a function called `infer_generator`. This function has one positional argument, a `list` of `int`s.

The function must return either the string `"A"` or the string `"B"` representing snippet A or B, respectively.

## Restrictions

(See 11a for more restrictions)

For this problem in particular:

- The source code limit is 2000.

## Example Calls

**Example 1 Function Call**

```
infer_generator([
    932, 606, 115, 195, 386, 811, 774, 237, 102, 127, 561, 141,
26, 220, 536, 861, 775, 18, 18, 296,
    279, 33, 148, 904, 730, 296, 773, 120, 678, 425, 727, 277,
146, 268, 461, 614, 464, 141, 136,
    856, 598, 811, 263, 151, 343, 833, 832, 86, 822, 129,
263, 537, 598, 461, 272, 156, 910,
    651, 86, 358, 667, 833, 331, 374, 141, 648, 272, 600, 300,
693, 940, 729, 282, 953, 425, 115,
    955, 891, 797, 668, 855, 350, 263, 343, 290, 756, 463, 954,
175, 129, 536, 648, 239, 300, 464,
    735, 287, 156, 693, 129, 39, 279, 128, 457, 350, 282, 128,
590, 530, 989, 268, 727, 326, 991,
    775, 668, 730, 590, 272, 300, 192, 102, 277, 984, 148, 386,
410, 290, 146, 773, 18, 358, 239,
    102, 287, 736, 86, 730, 156, 192, 218, 372, 774, 192, 358,
39, 33, 26, 92, 151, 957, 127, 128,
    546, 606, 931, 463, 220, 218, 220, 120, 577, 600, 120, 577,
136, 268, 537, 326, 136, 546, 797,
    410, 904, 218, 580, 651, 115, 963, 590, 127, 895, 237, 577,
277, 175, 175, 343, 33, 326, 282,
    530, 463, 195, 92, 854, 600, 756, 984,
])
```

**Example 1 Return Value**

```
"A"
```

**Example 2 Function Call**

```
infer_generator([
    110, 586, 471, 654, 928, 79, 410, 787, 994, 905, 409, 497,
598, 3, 709, 507, 403, 86, 696, 633,
    813, 22, 238, 507, 913, 701, 498, 836, 471, 685, 503, 382,
824, 836, 893, 824, 931, 685, 709,
    565, 497, 565, 994, 460, 594, 107, 997, 759, 539, 600, 503,
769, 995, 470, 974, 769, 893, 836,
    521, 807, 207, 560, 95, 777, 813, 208, 813, 994, 787, 594,
471, 460, 771, 700, 974, 876, 807,
    537, 545, 696, 700, 67, 373, 403, 403, 428, 560, 318, 876,
334, 409, 728, 771, 446, 95, 204, 54,
    660, 893, 141, 353, 777, 349, 410, 469, 660, 974, 913, 204,
825, 208, 179, 997, 728, 428, 460,
    696, 497, 970, 345, 353, 629, 334, 469, 807, 1, 629, 503,
250, 594, 654, 539, 382, 931, 273,
    970, 777, 565, 469, 769, 42, 450, 227, 701, 728, 234, 382,
586, 633, 141, 352, 38, 276, 222,
    6, 560, 771, 928, 765, 876, 959, 481, 207, 346, 196, 113,
95, 765, 539, 91, 931, 521, 450, 498,
    905, 633, 110, 107, 470, 995, 336, 959, 905, 970, 537, 629,
334, 759, 701, 90, 568, 245, 825,
    997, 105, 824, 825, 995, 660, 446,
])
```

**Example 2 Return Value**

```
"B"
```

## Constraints

- The function `infer_generator` will be called exactly 50 times (aside from the sample calls).
- There are exactly 200 test files (aside from the sample calls).
- The input is guaranteed to have been generated by snippet A or snippet B (with 50% chance).

## Scoring

- You get 150 ❤ points if you solve all test cases.

## ❓ Clarifications

Report an issue

No clarifications have been made at this time.

Sub...    [CS 11]
         Practice 11

✓ Points: 150 (partial)
🕐 Time limit: 6.0s
▤ Memory limit: 1G

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❯ Problem type
❮ Allowed languages
NONE, py3