

Problem of the Week

Proposed by Bernardo Ábrego and Silvia Fernández

April 24-May 1

In how many ways can the numbers in the list

1, 2, 2, 3, 3, 3, 5, 5, 5, 5, 5

be rearranged in such a way that none of them stays in the same position?

For example the next rearrangement does not qualify because the underlined numbers kept their original position.

5, 2, 1, 3, 5, 5, 5, 2, 3, 3, 5

This contest is sponsored by the Mathematics Department. Open to all CSUN students.

Winner gets \$5 or an equivalent prize. All complete and correct solutions get a certificate.

Type and send your solution before May 1st, 9:00PM to silvia.fernandez@csun.edu.

All steps of the solution must be clearly justified.

For rules, winners, solutions, and more information visit: www.csun.edu/math/probweek