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function test_range = eval_polynomial(problem_domain, current_position_vector,
original_domain, exponent_vector, transpose_vector)

num_items = size(original_domain,2);
D = size(problem_domain,1);
test_range = zeros(1,num_items);

for i = 1 : D/2

    temp_domain = original_domain;

    if(transpose_vector(i) == 1)

        temp_domain = original_domain';

    endif

    exp = exponent_vector(i);
    coef = problem_domain(i, current_position_vector(i));
    interc = problem_domain(i + D/2, current_position_vector(i));

    test_range = test_range + (coef*(temp_domain .- interc)).^exp;

endfor

endfunction

```