

```
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```
function [approx_goal approx_quantity] = eval_goal_function(problem_domain,  
current_position_vector)
```

```
    num_items = size(problem_domain,1);
```

```
    for i = 1 : num_items
```

```
        coef(i) = problem_domain(i, current_position_vector(i));
```

```
    endfor
```

```
    approx_goal = 2*abs(coef(1) - coef(5)) + 1*abs(coef(2) - coef(4)) + 0*coef(3);  
    approx_quantity = sum(coef);
```

```
endfunction
```