Editorial
Spoj - Help Bob

Problem Link

Prerequisites - DP with bitmask

Explanation -

Yes.. it can be solved using DP+bitmasking.

Consider Bob takes 1 pizza, any 2 pizzas, any three pizzas or all m pizzas. We will take minimum of all these answers as our final output.

Let our recurrence relation is f(s) where 's' denotes the set whose ith setbit('1' bit) indicates that ith pizza is selected by Bob.
Finally we will take minimum value of f(s) where s varies from 1 to (1<<m)-1.

Now our recurrence relation can be defined as :
f(s) = min(f(s-{e})*(sum of areas of pizzas including in s excluding e) + price(e)*(discount due to pizzas including in s excluding e))/(sum of areas of pizzas including in s)).

If you are not getting this.. just read the following lines and try to implement it yourself :P

For each possible set(total 2^m sets), exclude each set('1') bit from it one by one, after excluding that bit calculate the new (price/area) from each remaining set-bit and allocate the minimum answer for each set.

This algorithm runs in O(n*n*2^n) and will be accepted if we use fast input/output :D