

Conditions

I have the following bills: a one dollar bill, a 2 dollar bill, a 5 dollar bill, a 20 dollar bill, and a 100 dollar bill. In how many ways can you distribute 3 bills to one person and 2 bills to a second person?

Solution

Totally we have 5 bills. The amount of all distribution ways is a product of permutations:

$$P = P_3 P_2 = 3! \cdot 2! = 1 \cdot 2 \cdot 3 \cdot 2 = 12$$