K - The Laws of the Game

Source file name: `football.c`, `football.cpp`, *or* `football.java`

"JH: La lleva el 'banano' Rooney
NP: ¿Y eso, por qué banano?
JH: Pues por las pecas profe Peluffo, por las pecas."
J.Hernández y N.Peluffo

"Podemos apreciar cómo el jugador
le aplicó a la pelota el popular y conocido
guanabanaaaaaaazo de barrio."
C.A.Vélez

"El practica lo que es el perreo."
H.D.Gómez

"Como dijo Williamcito: me asustastes."
W.Vinasco

"Ya le pueden escribir a la novia:
'me siento más solo que Pauleta en la
delantera de Portugal'."
J.Hernández

"No es que uno le desee el mal a nadie,
pero menos mal se lesionó 'Barrabás'."
E.Perea

"Hay un aficionado desnudo en la cancha ...
¿compañero?...¿compañero?
¡Compañero, cómo me hace esto, compañero!"
El corresponsal Davivienda

"El balón lo tiene Stefan Effenberg ...
buen jugador ese Effenberg ... señores,
cambio en Alemania: entra Stefan Effenberg."
USA 1994

"Si la mete, es gol."
C.A.Vélez

"Perder es ganar un poco."
F.Maturana

According to the *Laws of the Game* of the International Football Association, a full football team consists of eleven players, one of whom is the goalkeeper. The other ten players fall into one of the three *outfield* positions: defender, midfielder, and striker. There is no restriction on the number of players at each of these positions, as long as the total number of outfield players is ten.

For example, one team may field four strikers, three midfielders, and three defenders, in addition to the goalkeeper. Another may play five strikers, no midfielders, and five defenders, plus the goalkeeper.

How many different configurations are there for a full football team if there are restrictions on the least number of players at each outfield position?

Input

The input consists of several test cases. Each test case comprises a line of the input containing three non-negative integer numbers $0 \leq d, m, s \leq 10$ separated by blanks. You can assume that $d + m + s \leq 10$.

The input must be read from standard input.

Output

For each input, compute and output the number of configurations for a full football team having at least d defenders, m midfielders, and s strikers.

The output must be written to standard output.

Sample Input	**Sample Output**
3 5 1 5 1 3 4 4 2 0 0 0	3 3 1 66