Programming in C

Write a program in C which, given two integer inputs $J$ and $K$, will output the combinations of $J$ things partitioned into $K$ groups. For example, if $J = 5$ and $K = 3$, the output would be:

$$(5,0,0)$$
$$(4,1,0)$$
$$(3,2,0)$$
$$(3,1,1)$$
$$(2,2,1)$$

[20 marks]