```c
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
//Constructed By Dominic Alexander Cooper
int main(){


    char a[101] = {'a','b','c','d','e','f','g','h','i','j','k','l','m','n','o','p','q',
'r','s','t','u','v','w','x','y','z',' ','\n','\t','  ','\',',',',',','.','/','<','>','?',
':',';','@','#','~',']','[','{','}','`','¬','|','¦','!','"','£','$','%','^','&','*',
'(',')','-','_','+','=','A','B','C','D','E','F','G','H','I','J','K','L','M','N','O',
'P','Q','R','S','T','U','V','W','X','Y','Z','0','1',' 2','3','4','5','6','7','8','9',
'\0'};
    FILE *p; p = fopen("SOLUTION1.txt","w");
    int k = 100;
    printf("\n\tk = 100");
    int noc; printf("\n\tn = ");
    scanf("%d", &noc);
    printf("\n\tNumber Of FILE Cells = %d", noc);
    int n = noc;
    int row, col;
    int cell;
    int rdiv;
    int id;
    id = 0;
    int nbr_comb = pow(k+1, n);
    for (row=0; row < nbr_comb; row++){
        id++;  fprintf(p,"\n\n\n\nFILE%d\n\n\n\n", id);
        for (col=n-1; col>=0; col--){  rdiv = pow(k+1, col);
            cell = (row/rdiv) % (k+1); fprintf(p,"%c", a[cell]);
        }
        printf("\n");
    }
    fprintf(p,"\n\n\t(k+1)^n = (%d + 1)^%d = %d", k, n, id);
    fclose(p);

    return 0;
}
```