**SMART KEYPAD - I**

You will be given a numeric string ****S****. Print all the possible codes for ****S****.

Following vector contains the codes corresponding to the digits mapped.

string table[] = { " ", ".+@$", "abc", "def", "ghi", "jkl" , "mno", "pqrs" , "tuv", "wxyz" };

For example, string corresponding to ****0**** is " " and ****1**** is ".+@$"

**Input Format:**

A single string containing numbers only.

**Constraints:**

length of string <= 10

**Output Format**

All possible codes one per line in the following order.

The letter that appears first in the code should come first

**Sample Input**

12

**Sample Output**

.a

.b

.c

+a

+b

+c

@a

@b

@c

$a

$b

$c

Program-

#include <iostream>

#include<string>

using namespace std;

//int count=0;

char keypad[][10]={" ",".+@$","abc","def","ghi","jkl","mno","pqrs","tuv","wxyz"};

void printKeypadstring(char \*inp,char \*out,int i,int j)

{

if(inp[i]=='\0')

{

//count++;

out[j]='\0';

cout<<out<<endl;

return;

}

int digit=inp[i]-'0';

for(int k=0;keypad[digit][k];k++)

{

out[j]=keypad[digit][k];

printKeypadstring(inp,out,i+1,j+1);

}

}

int main()

{

char inp[100],out[100];

cin>>inp;

printKeypadstring(inp,out,0,0);

//cout<<endl<<count;

}