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// 3. A program for generation of Power set of a given set.
// to compile: gcc power.c -lm
name: Durvesh D. Dhake
section: A
roll no: A-48
batch: A-2
*/
#include<stdio.h>
#include<math.h>
void main()
int i,j,k,flag,temp,num,table[10][10]={0};
char set[20];
printf("\n Enter the no. of set element-");
scanf("%d",&num);
 printf("\n Enter the set elements");
for(i=0;i<num;i++)
scanf("%s",set[i]);//&set[i]
for(i=0;i<pow(2,num);i++)
temp=i;
printf("\n");
for(j=0;j<num;j++)
table[i][j]=temp%2;
temp=temp/2;
printf("%d",table[i][j]);
printf("\n=======");
printf("\n Power set is=");
for(i=0;i<pow(2,num);i++)
 printf("\n{");
 for(j=0;j<num;j++)
 if(table[i][j]==1)
 printf("%c",set[j]);
 printf("}\n");
output:
Enter the no. of set element-3
Enter the set elementsa b c
000
100
010
110
001
```