Code

```c
#include <stdio.h>
int main(void) {
    while(1){
        int x[]={9,5,3,2,7,8,9,-1},i;
        int y,count=0;
        printf("Enter a number: ");
        scanf("%d",&y);
        for(i=0;x[i]!=-1;i++)
        if(x[i]==y)
            count++;
        printf("%d\n",count);
    }
    return 0;
}
```