

```
1.  /*****      base conversion by Shadman      *****/
2.  #include <bits/stdc++.h>
3.  using namespace std;
4.  int main ()
5.  {
6.      long long int value,remainder,x,i,j,e,numb,base,a,b;
7.      char s[10],val[110];
8.      vector<long long int>v;
9.      while(1)
10.     {   v.clear();
11.         scanf("%s",&s);
12.         numb=0;
13.         base=1;
14.         if(s[0]=='e')break;
15.         else if(s[0]=='f')
16.         {   a=strlen(s);
17.
18.             x=0;
19.
20.             for(i=5;i<a;i++)
21.             {
22.                 x=x*10;
23.                 x=x+(s[i]-48);
24.             }
25.             x=x*-1;
26.
27.             scanf("%s",val);
28.             if(strlen(val)==1 && val[0]=='0')
29.             {
30.                 printf("0\n");
31.                 continue;
32.             }
33.
34.             b=strlen(val);
35.             //cout<<x<<" "<<value<<endl;
36.             for(i=b-1;i>=0;i--)
37.             {
38.                 remainder = val[i]-48;
39.                 numb = numb + remainder * base;
40.
41.                 base = base * x;
42.                 value = value / 10;
43.                 //cout<<numb<<" ";
44.             }
45.             printf("%lld",numb);
46.             printf("\n");
47.
48.         }
49.
50.         else if(s[0]=='t')
51.         {
52.
53.             a=strlen(s);
54.             x=0;
55.             for(i=3;i<a;i++)
56.             {
57.                 x=x*10;
58.                 x=x+(s[i]-48);
```

```
59.     }
60.     x=x*-1;
61.
62.     scanf("%lld",&value);
63.     if(value==0)
64.     {
65.         printf("0\n");
66.         continue;
67.     }
68.
69.     while (value != 0)
70.     {
71.         remainder = value % x;
72.
73.         value = value / x;
74.         //cout<<remainder<<" "<<value<<endl;
75.         if (remainder < 0)
76.         {
77.             remainder += abs(x);
78.             value += 1;
79.         }
80.
81.         v.push_back(remainder);
82.     }
83.     e=v.size();
84.
85.     for(i=e-1;i>=0;i--)
86.         printf("%lld",v[i]);
87.     printf("\n");
88.     }
89.
90.
91. }
92.
93. return 0;
94. }
```