

"The more we talk, the less sense we make."

11

Program that Outputs the same

Program that outputs the same is technically called as *self-reproducing* or *self-replicating program*. You may wonder whether a C program could output the same or not. Yes, it's possible. As it is a tough job, it is considered to be an intellectual programming.

11.1 Self-replicating program #1

The following program is a common self-replicating program. When you run this program, you would get the same as output. So don't ask me the output!!!

```
main( ) {char *c="main( ) {char
*c=%c%s%c;printf(c,34,c,34);}" ;printf(c,34,c,34);}
```

11.2 Self-replicating program #2

Some people slightly modify the above self-replicating program and obtain the following program.

```
char*s="char*s=%c%s%c;main(){printf(s,34,s,34);}" ;main(){printf(s,34,s,34);}
```

11.3 Self-replicating program #3

The following program is an interesting one, because it is self-replicating as well as palindrome! It was by **Dan Hoey**.

```
/**/char q=' ',*a="**/**/char q='%c',*a=%c%s%c*/};)b(stup;]d[b=]d-472[b]--d(elihw;)q,a,q,q,2+a,b(ftnirps;)b(stup{) (niam;731=d ni;]572[b," ,b[275];int d=137;main(){puts(b);sprintf(b,a+2,q,q,a,q);while(d--)b[274-d]=b[d];puts(b);}/*c%s%c=a*,'c'%=q rahc/**/*=a*,' '=q rahc/**/
```