```
#include <stdio.h>
#include <string.h>
#define SUCCESS 1
#define FAILED 0
int E(), Edash(), T(), Tdash(), F();
const char *cursor;
char string[64];
int main()
  puts("Enter the string");
  // scanf("%s", string);
  sscanf("i+(i+i)*i", "%s", string);
  cursor = string;
  puts("");
  puts("Input Action");
  puts("-----");
  if (E() \&\& *cursor == '\0') {
    puts("----");
    puts("String is successfully parsed");
    return 0;
  } else {
    puts("-----");
    puts("Error in parsing String");
    return 1;
  }
int E()
  printf("%-16s E -> T E\n", cursor);
  if (T()) {
    if (Edash())
      return SUCCESS;
    else
      return FAILED;
  } else
    return FAILED;
int Edash()
  if (*cursor == '+') {
    printf("%-16s E' -> + T E'\n", cursor);
    cursor++;
    if (T())
      if (Edash())
         return SUCCESS;
      else
         return FAILED;
```

```
else
       return FAILED;
 else
  {
    printf("%-16s E' -> $\n", cursor);
    return SUCCESS;
}
int T()
  printf("%-16s T -> F T'\n", cursor);
  if (F())
     if (Tdash())
       return SUCCESS;
     else
       return FAILED;
  } else
    return FAILED;
int Tdash()
  if (*cursor == '*')
    printf("%-16s T' -> * F T'\n", cursor);
     cursor++;
     if (F())
       if (Tdash())
          return SUCCESS;
       else
          return FAILED;
       return FAILED;
  }
 else
    printf("%-16s T' -> $\n", cursor);
     return SUCCESS;
}
int F()
  if (*cursor == '(')
```

```
printf("%-16s F -> ( E )\n", cursor);
  cursor++;
  if (E())
    if (*cursor == ')')
       cursor++;
       return SUCCESS;
    } else
       return FAILED;
  } else
    return FAILED;
} else if (*cursor == 'i')
  cursor++;
  printf("%-16s F ->i\n", cursor);
  return SUCCESS;
} else
  return FAILED;
آو (globals)
          Enter the string
                Action
         Process exited after 5.648 seconds with return value 0 Press any key to continue . . . \mid
```