1)

Grammar:

```
E \rightarrow iE'
E' \rightarrow +iE' | \epsilon
Recursive Descent Parser C Code:
#include <stdio.h>
#include <stdlib.h>
int i = 0, t = 1;
char str[20];
void E();
void EPRIME();
void error();
int main() {
    printf("The given grammar is:\n");
    printf("\nE -> iE'");
    printf("\nE' -> +iE' | \epsilon");
    printf("\nEnter the string to be parsed: ");
    scanf("%s", str);
    E();
    if (t != 1 || str[i] != '\0') {
        printf("\nGiven string is not accepted\n");
    } else {
        printf("\nThe given string is accepted\n");
    return 0;
}
void E() {
    if (str[i] == 'i') {
        i++;
        EPRIME();
    } else {
        error();
    }
}
void EPRIME() {
    if (str[i] == '+') {
        i++;
         if (str[i] == 'i') {
             i++;
             EPRIME();
         } else {
             error();
    }
}
```

```
void error() {
    t = -1;
}
OUTPUT
```

The given grammar is:

E -> iE'

 $E' \rightarrow +iE' \mid \epsilon$

Enter the string to be parsed: i+i+i

The given string is accepted

2)

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