```
#include <stdio.h>
#include <stdlib.h>
#include <limits.h>

int             ft_strlen(char *str)
{
        int             i;

        i = 0;
        while (str[i] != '\0')
                i++;
        return (i);
}

int             ft_isdigit(char c)
{
        if (c >= '0' && c <= '9')
                return (1);
        return (0);
}

int             is_operateur(char *str)
{
        int             i;

        i = 0;
        if (str[i] == '*' || str[i] == '+' || str[i] == '-' || str[i] == '%' ||
str[i] == '/')
        {
                if (ft_isdigit(str[i + 1]) == 0)
                        return (1);
        }
        return (0);
}
```

```
long            *rpn_calc(char *str)
{
        long    *tab;
        int             i = 0;
        int             j = 0;
        if (!(tab = (long*)malloc(sizeof(long) * ft_strlen(str))))
                return (NULL);
        while (str[i] != '\0')
        {
                while (is_operateur(str + i) == 0)
                {
                        tab[j] = atoi(str + i);
                        j++;
                        while (str[i] != '\0' && str[i] != ' ')
                                i++;
                        if (str[i] == '\0')
                        {
                                printf("Error\n");
                                return (NULL);
                        }
                        while (str[i] == ' ')
                                i++;
                }
                if (j < 2)
                {
                        printf("Error\n");
                        return (NULL);
                }
                if (str[i] == '/')
                {
                        if (tab[j - 1] == 0)
                        {
                                printf("Error\n");
                                return (NULL);
                        }
                        tab[j - 2] = tab[j - 2] / tab[j - 1];
                }
                else if (str[i] == '-')
                        tab[j - 2] = tab[j - 2] - tab[j - 1];
                else if (str[i] == '+')
                        tab[j - 2] = tab[j - 2] + tab[j - 1];
                else if (str[i] == '*')
                        tab[j - 2] = tab[j - 2] * tab[j - 1];
                else if (str[i] == '%')
                {
                        if (tab[j - 1] == 0)
                        {
                                printf("Error\n");
                                return (NULL);
                        }
                        tab[j - 2] = tab[j - 2] % tab[j - 1];
                }
                j--;
                i++;
                while (str[i] == ' ')
                        i++;
        }
        if (j > 1)
        {
                printf("Error\n");
                return (NULL);
        }
        return (tab);
}
```

```
int             main(int argc, char **argv)
{
        long    *tab;

        if (argc == 2 && argv[1][0] != '\0')
        {
                tab = rpn_calc(argv[1]);
                if (tab != NULL)
                        printf("%ld\n", tab[0]);
                return (0);
        }
        printf("Error\n");
        return (0);
}
```