

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

```
#define abs(a) (a < 0) ? -a : a
```

```
char *g_base = "0123456789ABCDEF";
```

```
char *ft_itoa_base(int value, int base)
```

```
{
```

```
    int negative = (base == 10 && value < 0) ? 1 : 0;
```

```
    int size = (negative) ? 3 : 2;
```

```
    int temp = value;
```

```
    while (temp /= base)
```

```
        size++;
```

```
    char *res = malloc(sizeof(char) * size);
```

```
    res[--size] = '\0';
```

```
    res[--size] = g_base[abs(value % base)];
```

```
    while (value /= base)
```

```
        res[--size] = g_base[abs(value % base)];
```

```
    if (negative == 1)
```

```
        res[--size] = '-';
```

```
    return res;
```

```
}
```