

```

char* partialCopyString(char* str, bool copy_even, int* out_len) {
//BAD CODING : not initialize to NULL

    char* OUT;

    if (copy_even) {
//CORECTNESS : if we allocate memory with a valid pointer we loose it

        out_len = malloc(sizeof(int));

//CORECTNESS : if strlen(str) == 7 for example out_len will recive 3 and not 4

        *out_len = strlen(str) / 2;

//BAD CODING : in all operating systems char = 1 byte but still i would write it
//BAD CODING : needs to check if memory allocation failed
//CORECTNESS : for new string we need to allocate memory of [strlen(str) + 1]

        OUT = malloc(*out_len);

//CORECTNESS : we will read from a non allocate memory in last iteration

        for (int i = 0; i < strlen(str); i += 2) {

            OUT[i / 2] = str[i + 1];

        }

    }else{

//CORECTNESS : if we allocate memory with a valid pointer we loose it

        out_len = malloc(sizeof(int));

        *out_len = strlen(str) / 2 + strlen(str) % 2;

//BAD CODING : in all operating systems char = 1 byte but still i would write it
//BAD CODING : needs to check if memory allocation failed
//CORECTNESS : for new string we need to allocate memory of [strlen(str) + 1]

        OUT = malloc(*out_len);

        for (int i = 0; i < strlen(str); i += 2) {

            OUT[i / 2] = str[i];

        }

    }

    return OUT;
}

```