char\* partialCopyString(char\* str, bool copy\_even, int\* out\_len) {

//BAD CODING : not initiallize 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 bype 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 bype 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;

}