1.19). It eliminate the influence of pudded sentences on the attention matrix. It is necessary because me don't want the padded sentences to have some unexpected charges on the aftention matrix.

flexibitity low median high efficiency high median low

2. (a), i. error: Agui otro de mis -> Herers another favourate of my favourates

Reason: May because there are several words in this sentence that means = favourate in English.

Fix: Maybe add another matrix in the decoder LSTM to avoid two same words in a sentence

Reason: The model can't reasonize the word ordering in spanish.

Fix: Maybe delete the comma in the sentence and add another RNN to add back the comma after English translation.

sii) error: = Richard Boling broke" >= Lithard < UNK>"
Reason: Cant reorgnize names

Fix: Add = Name" in vocability and learn to = copy"

from source text.

iv). From a dar vuela.... manzana" >= have... apple"
Reason: comt understand Spanish idioms
Fix: flave the machine trained on a ment-labeled idioms dataset.

V). Error: bans --- profesores" -> = bathroom ... room"

Keason: 100 gener inalcation in the algorial sentence of teacher but shows women in translation, Fix; Have the madrine trained on a well-labeled profession dataset

(18). Error: = 100,000 hectáreas"→ = 100,000 acres" Reason: Wrong measurement transformation. Fix: Check the condition if it contains measurements If so, change the number into English measurements. If not a directly go to the machine.

b).

c). i)
$$c_1: P_1 = \frac{0+1+1+10}{5}$$

$$R = \frac{3}{5} + \frac{1}{4}$$

$$RP = 1 - e(0.5 - \log(\frac{3}{5}) + 0.5 - \log(\frac{1}{5})$$

$$R = \frac{1}{5} + \frac{1}{5}$$

$$R = \frac{1}{5} + \frac{1}{$$

According to BLEU, (2 is better. I agree , because the mean's the same to the reference sentence.

$$(i)$$
, $C_1: P_1 = \frac{3}{5}$
 $P_2 = \frac{1}{5}$

(1 is better according to BLEU. Ho wever, I don't think it has the same meaning as the reference translation.

iii). It may be problematic because the meaning of a sentence can be conveyed in different ways. So, if we only have one reference sentence, we may give sentences that have same mean with different wording a very low score.

c). odiantage: 1. It is quite simple

2. It is fast to calculate disadvantage? It can't judge the structure of sentence 2 It can't judge the meaning of sentence very completely.