

1. (10 points) Experiment with stack pruning parameters. What is their affect on...

- a. log-probabilities:
- b. speed:
- c. translations:
- d. maximum log-probability:

2. (15 points) Define a new dynamic program for Part 2.

Write your answer here.

3. (5 points) What is the complexity of your Part 2 decoder? Explain your reasoning.

Write your answer here.

4. (5 points) What is the mapping from hypothesis objects to stacks for Part 2?

Write your answer here.

6. (15 points) Experiment with stack pruning parameters for Part 2. What is their affect on...

- a. log-probabilities:
- b. speed:
- c. translations:
- d. maximum log-probability:

7. (10 points) Define a new dynamic program for Part 3.

Write your answer here.

8. (5 points) What is the computational complexity of your Part 3 decoder?

Write your answer here.

9. (5 points) What is the mapping from hypothesis objects to stacks for Part 3?

Write your answer here.

11. (5 points) What is the maximum log-probability your Part 3 decoder can obtain? What do you conclude?

Write your answer here.