

Based on the provided Petri net, the food preparation process flows as follows:

The process begins with two silent transitions occurring simultaneously, splitting the workflow into two parallel branches: one for burger preparation and one for drink preparation.

Burger preparation branch: 1. **Start burger** is conducted.

2. Then, two tasks occur at the same time:

- **Toast bun**

- **Grill patty**

3. Next, after Grill patty, **Melt cheese** is conducted.

4. Then, two tasks occur at the same time:

- **Spread sauces** (requires both the melted cheese and toasted bun)

- **Add toppings**

5. Next, after Spread sauces, **Prep veggies** is conducted.

6. Then, after both Prep veggies and Add toppings, **Assemble burger** is conducted.

7. Finally, a silent transition occurs, completing this branch.

Drink preparation branch (exclusive choice—only one option is performed):

Option 1: Milkshake

- **Start milkshake** is conducted.

- Then, two tasks occur at the same time:

- **Prepare cup**

- (Implicitly: fruit preparation starts)

- Next, **Add fruit** is conducted (requires the prepared cup and fruit preparation).

- Finally, a silent transition occurs, completing this option.

Option 2: Coffee

- **Start coffee** is conducted.

- Then, two tasks occur at the same time:

- **Prepare cup**

- (Implicitly: coffee preparation starts)

- Next, **Make latte art** is conducted (requires the prepared cup and coffee).

- Finally, a silent transition occurs, completing this option.

The process ends when both the burger branch and the chosen drink branch complete.