

Ferworn's Bean Burrito Algorithm

Recipe for Bean Burritos

Ingredients

- 1 15 ounce can black beans, drained
- 1 1/2 cups prepared salsa
- 1/2 tsp cumin powder
- 1 3/4 cup leftover pre-cooked rice
- 1 cup grated cheddar cheese
- shredded iceberg lettuce (optional)
- approximately 1/2 cup sour cream (optional)
- 6-8 flour tortillas



Instructions

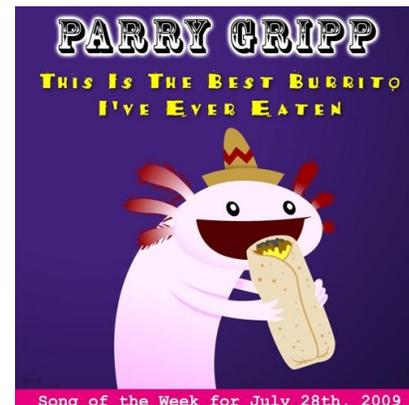
- In a large pan, over low heat, stir the beans, salsa and cumin together.
- Stir in the rice
- Cook until hot.
- Spoon the rice and beans mixture onto the tortillas.
- Top with cheese, sour cream, lettuce
- Wrap your burrito
- Eat

Things we need to make an algorithm

- 1) Parts¹ (pan, beans, salsa, cumin, rice, tortillas, cheese, sour_cream, lettuce)
- 2) Actions² (stir, heat, spoon, check_temperature, top, eat)
- 3) Conditions (low, hot)

Algorithm³ for Bean Burritos

- 1) pan = stir(beans, salsa, cumin)
- 2) heat(pan)
- 3) if check_temperature(pan) <> low -> see 2)
- 4) pan = pan + stir(rice)
- 5) heat(pan)
- 6) if check_temperature(pan) <> hot -> see 5)
- 7) tortilla = spoon(pan)
- 8) tortilla = tortilla + top(cheese, sour_cream, lettuce)
- 9) tortilla = wrap(tortilla)
- 10) Eat(tortilla)



Program for Bean Burritos

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EXERCISE: Find a Shawarma recipe and make it into an algorithm

¹ Sometimes called "actors" or "variables" or "nouns"

² Sometimes called "actions" or "functions" or "verbs"

³ Algorithms can be written in a natural language (like English) but it is often useful to write them in "pseudo-code" for ease of translation into a computer language.