

The main program initially sets the month to April and the season to winter and the planting month to wheat planting month together with the harvest month. The program then branches to check for soil fertility and calculate yield using their respective subroutines.

The `simulateAnnualCycle` function is used to loop the program through different months for a year period by using other appropriate helper subroutines such as `summer_check`, `check_season`, and `next_month`. After the month has been set, the `plant_crops` subroutine is called where either `winter_planting` or `summer_intercropping` is selected.

From `summer_intercropping` the program first checks if it is a summer planting month (that is August to October) otherwise planting is ended. If the period is for summer planting `plant_summer_crop` subroutine is used to plant summer crops. This also goes for winter planting where wheat is planted.

For harvesting, the `harvestCrops` subroutine is used. Where based on the current season either `winter_harvesting` or `summer_harvesting` is chosen. For `winter_harvesting`, the period is checked and a message is displayed for the harvested crop and the crop status array is updated accordingly and the helper subroutine `harvest_next_crop` is called to advance the index of the crop status array. This also goes for `summer_harvesting`.