HW 2 GENERAL GRADING KEY & COMMON MISTAKES

Question 1 - Grading Key:

Section 1:
- A simple mistake in the calculation (-2).
- Not enough explanation (-3).

Section 2:
- Not giving examples for scheduling policies (-4).
- Not filling the table (-4).

Section 3:
- A mistake in one advantage/disadvantage (-2).
- Stating a property for batch or RR scheduling policy that poses an advantage/disadvantage but not explaining how/why. (-1).

Section 4:
- Not giving an example (-4).

Section 5:
- Not giving a correct example (-4).
- Not showing the better scheduling method and only showing the result of BFAS run (-3).

Question 1 - Common Mistakes:

1. **Q1 5.** - Claiming that BSAF is in fact optimal in the the aspect of utilization.
2. **Q1 1.3.** - Utilization was calculated with all 10 time-slots instead of 8. What needs to be understood here is that utilization is calculated using only time slots that contain actual jobs. If there are no jobs, the CPU is idle, therefore utilization has no meaning. Utilization here is calculated as follow: \( \frac{32 - 8}{32} = 75\% \)
3. **Q1 5.** - Giving a counterexample of BSAF but forgetting that BSAF backfills.
4. **Q1 3.** - Fairness is a relative definition and cannot be used as a an argument here. It should have been mentioned what fairness aspect was being discussed (for example, fairness towards shorter tasks or fairness towards more important jobs?).

**NOTE:** This is a general correction key, the staff has the right to deduct points for other incorrectness in the solution as they fit.