

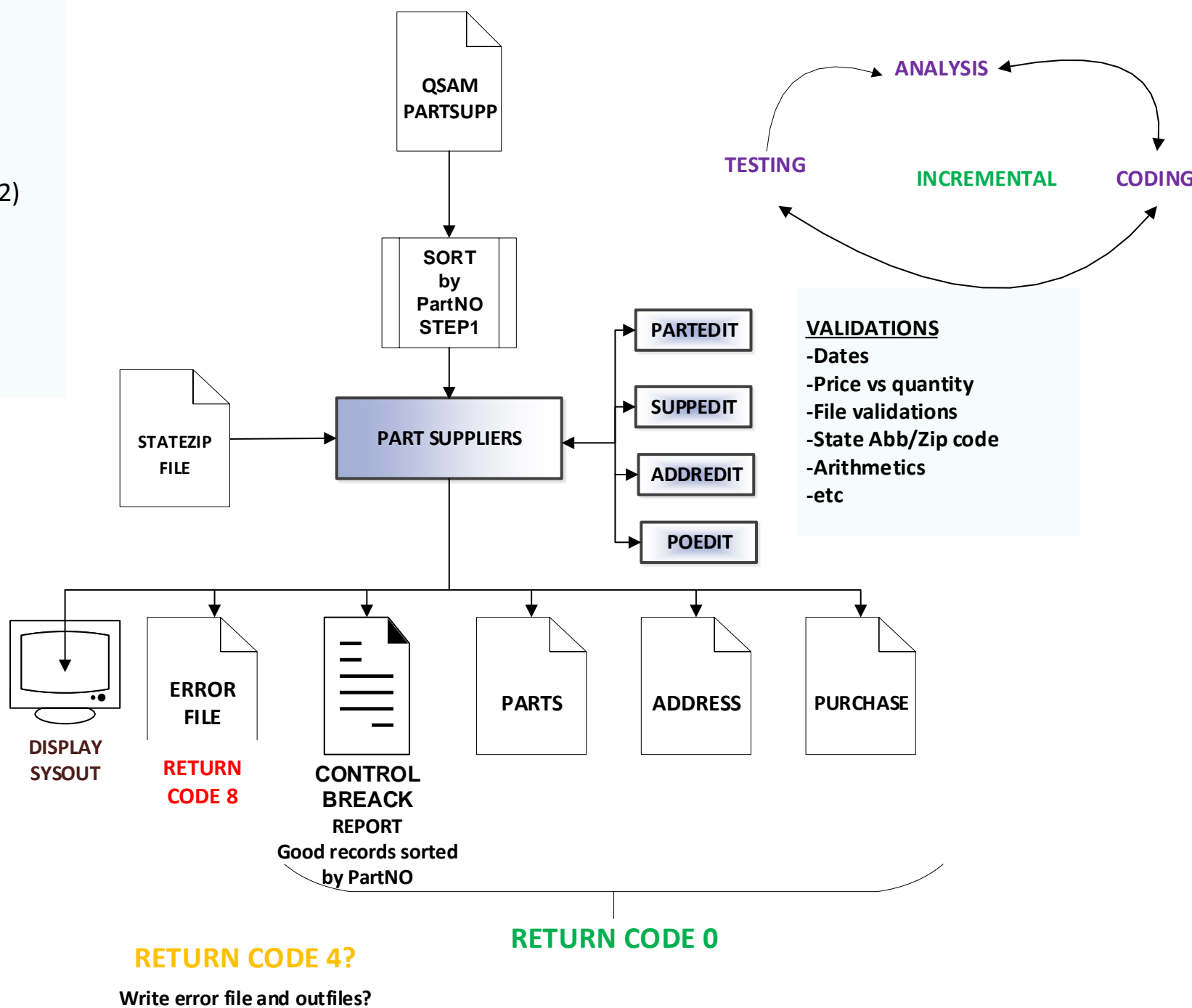
FINAL EXAM

Phase 1 – **DueDate OCT 1ST**

1) DELIVERABLES:

- Program (STEP 1 AND STEP 2)
- TEST DATA
- JCL

2) Introduce a bug



Edited Records -Disposition

If the record passes all the tests in the subprogram:

- The subroutine should send back a return code of zero
- The PARTSUPP (calling program);
 - Moves the record data to the associated output file:
 - PARTS
 - SUPPLIERS
 - ADDRESSES
 - PURCHASEORDERS
 - Writes the output file
 - Writes the existing PARTSUPP file

If the record has anyerrors:

- The subroutine sends back a return-code of 8
- The PARTSUPP driver program writes the record to the error-file and does **not** write the record to the "good record" output file(s)
- If there are < 4 errors: (1, 2 or 3 errors)
 - The bad record must include error messages in the output file
 - Meaning that your output file record layout needs additional space for the error message(s) that accompany the invalid data fields in the record ->> **deal with additional space for the ERROR -FILE.**
- If there are > 3 errors:
 - The bad record is written to the output file with a single message that the record is completely invalid

Recommendations from Jon:

- Program Level: What the program does
- Paragraph level:"HOW" the paragraph operates
- Inline doc *> things that are unintuitive, complex or land-mines for future maintenance
- work TOP-DOWN into blocks of logic (PARAGRAPHS)
- Use pseudocode at first
- read one record in - and write one record out - not the entire file

VALIDATIONS

05 PARTS:

- Required fields***PART-NUMBER/PART-NAME/VEHICLE-MAKE, VEHICLE-MODEL VEHICLE-YEAR
- VEHICLE-MAKE must be one of the listed 88-level fields
- VEHICLE-YEAR must be between 1990 and 2019
- WEEKS-LEAD-TIME must be numeric and between 1 and 4

05 SUPPLIERS

- Required fields: SUPPLIER-CODE, SUPPLIER-TYPE, SUPPLIER-NAME, SUPPLIER-PERF
- SUPPLIER-TYPE, SUPPLIER-RATING, SUPPLIER-STATUS must be one of the listed 88-level values
- SUPPLIER-ACT-DATE -Optional but if a value exists in the field ensure that the date is valid
- If SUPPLIER-TYPE is SUBCONTRACTOR SUPPLIER-RATING must be Highest Quality
- SUPPLIER-STATUS -must be one of the listed 88-level fields

05 SUPP-ADDRESS -three occurrences

- Required fields: ADDRESS-1, CITY, ADDR-STATE and ZIP-CODE
- ADDRESS-TYPE must be one of the 88-level fields
- ZIP-CODE and ADDR-STATE must match in the STATEZIP file (next slide)

05 PURCHASE-ORDER -three occurrences

- Required fields: PO-NUMBER, BUYER-CODE, ORDER-,DATE, QUANTITY
- QUANTITY must be between 0 and 999,999
- If QUANTITY is > 0, UNIT-PRICE must be > 0.
- UNIT-PRICE must be between \$1 and \$1,000,000.00
- ORDER-DATE must be a valid date
- DELIVERY-DATE is optional but if there is data, it must be a valid date and the date must be later than ORDER-DATE

*** Required fields means "cannot be blank"