Amazon Written Test

# Instructions

1. You may use any language to write code.
2. Please **avoid using library functions** for the coding question.
3. Once you are done, or after 45 minutes, please zip your code and other artefacts and share mail it back to us. Any solutions reaching post 45(max 50) minutes mark will be disqualified
4. Please make sure your code is of production quality and handling all scenarios/edge cases.

# Questions

Q1: Write code to return number of triplets in array with sum < n. Please handle all scenarios/edge cases with error/exception handling.

Example

Array -> {2,3,1,5,4}

N=9

Return 2 for {1,3,5} , {2,3,4}

Answer: In JavaScript

const output = (function(){

return function triplet(array,N){

var count =0;

try {

if ( array.length <= 2 ) {

throw( "Insufficient array to find the triplet" );

}

for (var i = 0; i < array.length - 2; i++){

for (let j = i + 1; j < array.length - 1; j++){

for (let k = j + 1; k < array.length; k++){

if (array[i] + array[j] + array[k] === N)

{

count++;

}

}

}

}

}

catch ( e ) {

alert("Error: " + e );

}

return count

}

})();

Q2: Identify bugs/corner cases in below mentioned code snippet and fix them. Please enhance the code with error/exception handing. Please share the final code through email.

public boolean redeemPoint(String customerId, String amount)

{

Double toRedeem = Double.valueOf(amount);

try {

double currentPoints = Double.valueOf(myService.getPoints(customerId));

} catch (Exception e) {

e.printStackTrace();

}

double newPoints = currentPoints - toRedeem;

try {

myService.save(customerId,newPoints);

} catch (Exception e) {

e.printStackTrace();

}

log.info("Points redeemed for customer {}",customerId);

return true;

}