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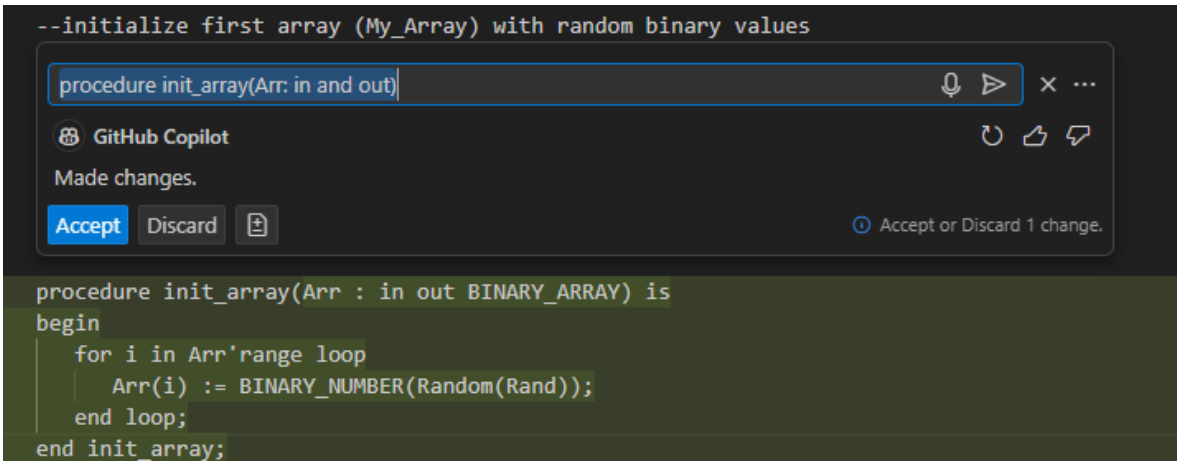
Professor Sardinas

Comp-3220 | HW-7

Given the five functions we were asked to create, I used copilot on two. The first function was to create a first array with random binary numbers.

Below is the output and recommendation from GitHub Copilot:



I took the for loop implementation with Arr(i), and just added a reset call and took out the 'BINARY_NUMBER' function call, leaving my function like this:

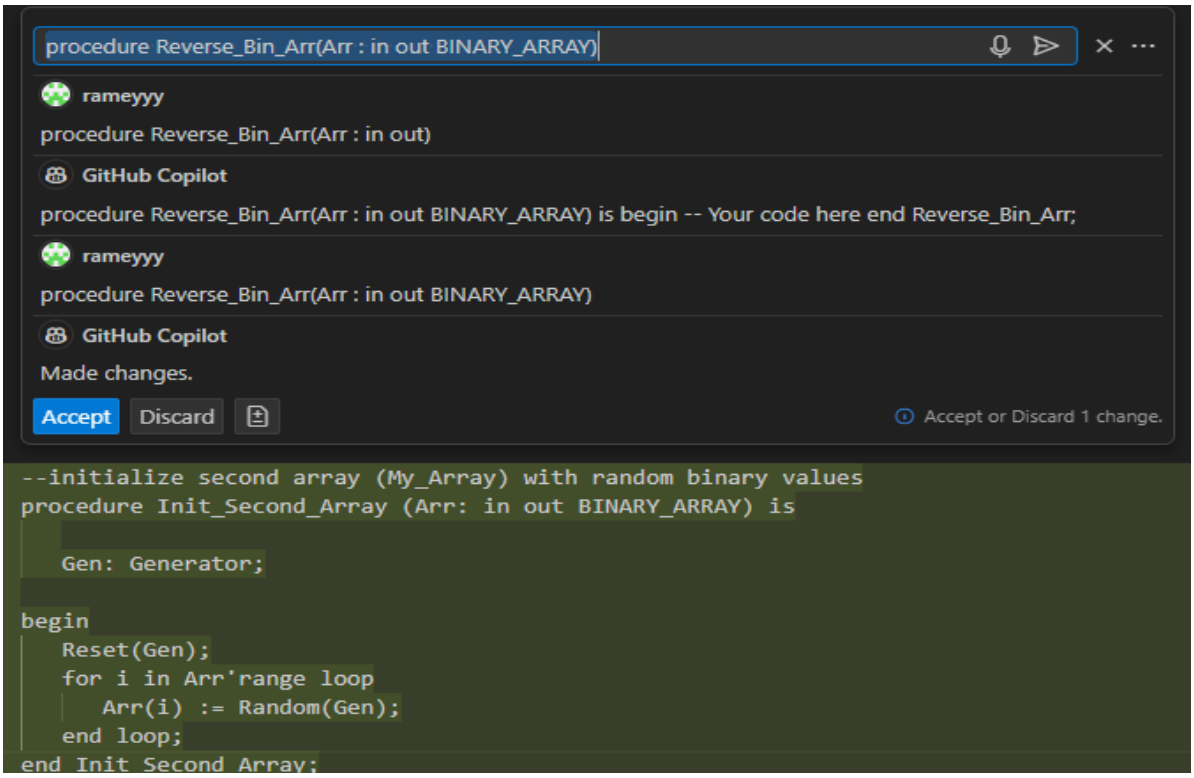
```
--initialize first array (My_Array) with random binary values
procedure Init_Array (Arr: in out BINARY_ARRAY) is

   Gen: Generator;

begin
   Reset(Gen);
   for i in Arr'range loop
      Arr(i) := Random(Gen);
   end loop;
end Init_Array;
```

The second function I used Copilot for was Revere_Bin_Arr, with the goal to reverse the binary array.

GitHub Copilot gave me this recommendation for the function:



It didn't understand my request and created a second array function. I changed it to a reversed insertion sort to do what the function was intended to do:

```
--reverse binary array
procedure Reverse_Bin_Arr (Arr : in out BINARY_ARRAY) is

   temp : BINARY_NUMBER;
   i : INTEGER;

begin
   i := 1;
   while i <= Arr'Length / 2 loop
      temp := Arr(i);
      Arr(i) := Arr(Arr'Length - i + 1);
      Arr(Arr'Length - i + 1) := temp;
      i := i + 1;
   end loop;
end Reverse_Bin_Arr;
```