```
Recursion
          4 when a function calls itself
         until a specific condition is met
 There is a function
   303
                            (understanding the theory)
                        when a function calls itself
 Example
      30) $
                                              print (1);
                            point (1);
                                                                baint (1);
      paint (1);
                                                                 fo;
        f();
     3
                         ( why this function keeps
                                                         cause there
   main () S
                                                           is no
                               on continuously
                                                           final
      fc);
                                 calling itsels)
                                                           condition
                            (Internally what happens)
                                                            that is met
us call a function
as complets only
                      Cyou have
                                                0/P
                             a stack)
when it executes
till the last
                             f(), line2
                                              This has a specific memory
 Leads to
                             f(), line 2
  Segmentation
                                              and can't keep on stack
                                                  compile lot of momory call
  fault - Stack
                             f(), line 2
            overflow
```

```
Segmentation fault
   6 when there is numerous
                                    Stack
                                -> owoflow
    function calls which are
     waiting due to Recursion
             (Problem of Infinite
                          Recursion)
Post-2
     unless and until a specific
         condition is met
     (Base condition)
         4 condition you use
                                       ( Look into the
             to stop the recursion
                                            flow proposty)
 Count = 0
                                              1503
1902
                                                p (count); (2) (p)
   if (count = = 4)
                                               countit;
      return;
  point (count) o(p) / p(count)(1)(p) /
   Count ++;(2), /
   f(); -
                                  7 () 4
                1 pccount);(3)p / (count = = 4)f
1 count ++; (4) / ( asturn;
                                                        2
                                                        3
```