

Indian Statistical Institute

BSDS, First Year, Mid-Sem of First Semester Examination, 2024-25

Introduction to Computing

Answer Keys

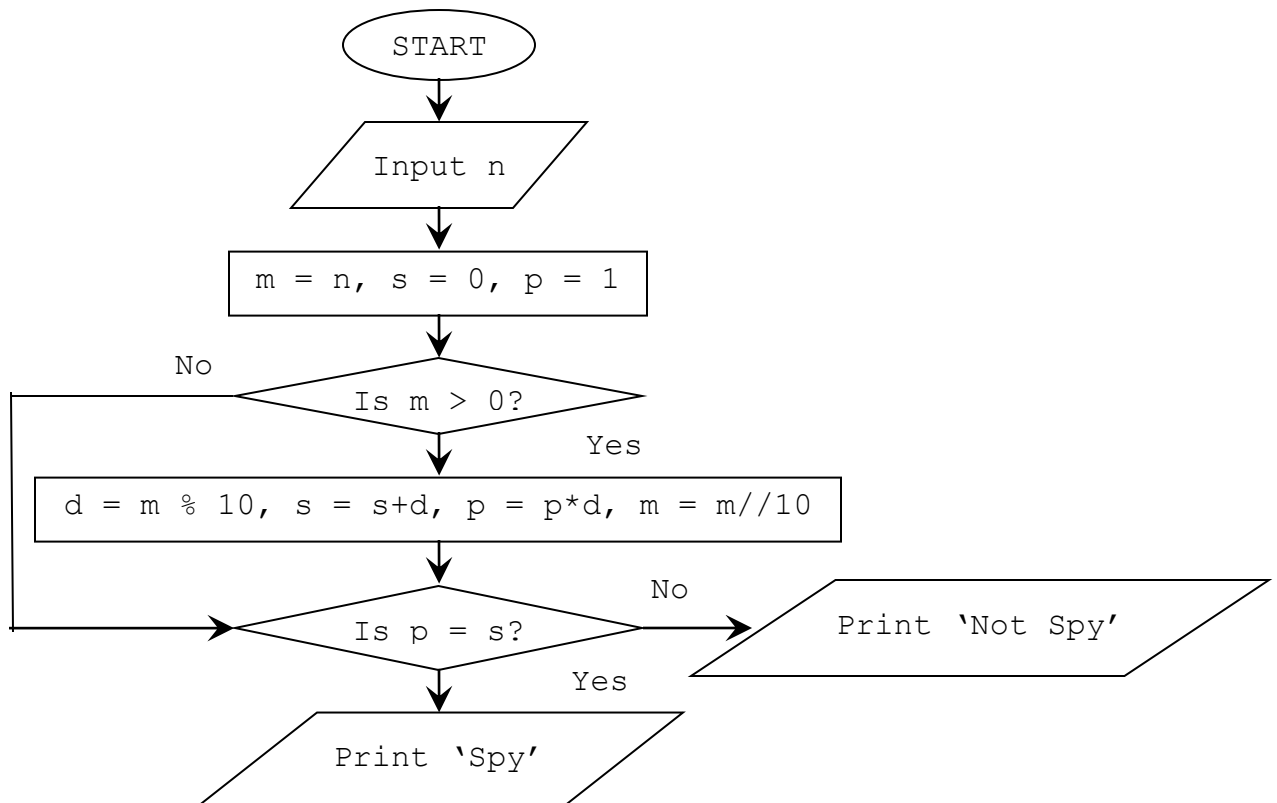
- (a) Prove
(b) Disprove
(c) Prove
(d) Prove
(e) Prove

2. Here follows the matching.

Side A	Side B
$n = \sim n$	$n = n + 1$
$n = (n \gg 3) + (n \gg 1)$	No match
No match	$n = n * 10$
$n = \text{sum}([n \text{ for } i \text{ in range}(n)])$	$n = n ** 2$
$n = \text{sum}([n \text{ for } i \text{ in range}(m)])$	$n = n * m$
$n = \sim \sim n$	$n = n - 1$

- (a) &
(b) `inverseBitonic(n - 1)`
(c) `flattened_list.append(n)`

4. (a) Here follows the flowchart.



```
(b) count = 0
    for i in range(1, length(L)):
        for j in range(i):
            if L[i] > L[j]
                count = count + 1
    print (count)
```