

# Phd

## ZPRAC-16-17-Lab4

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[25 points]

Doing a PhD is not an easy task. Since Nirbhay is so sure about doing PhD, we want him to realize how difficult it can be. In IITK completing a PhD requires the following:

- (1) Three comprehensive tests, denoted by 'T'
- (2) A SOTA(State Of the Art Seminar), denoted by 'S'
- (3) Cumulative 6 months of frustration, denoted by 'F'
- (4) 3 International conference papers, denoted by 'I'
- (5) 3 National conference papers, denoted by 'N'
- (6) 30 Drunk weekends, denoted by 'D'
- (7) Peer pressure for earning (friends who have an actual job), denoted by 'P'

Amlan being a Machine Learning guy has predicted Nirbhay's caliber and found the sequence which Nirbhay will follow. Your job is to find out whether he becomes a DOCTOR or NOT A DOCTOR

### Question starts:

You are given a string of characters as input which end with 'O' meaning old enough. You have to print whether the given sequence grants him a degree or not. You have to check for the following in the string:

- (1) 'T' - Exactly 3
- (2) 'S' - Exactly 1
- (3) 'F' - Maximum 6
- (4) 'P' - Anything
- (5) 'D' - Maximum 30
- (6) 'N' - At least 3
- (7) 'I' - At least 3

If he gets a degree, print "DOCTOR" else print "NOT A DOCTOR"

Note: The length of the sequence is not known to you beforehand. The input ends when you encounter an 'O'

### Example:

INPUT:

TTTSFFFPPPPPPFFFPDDDDDDDDDDDDDDDDDDDDDDDDDDDDNNNIIIO

OUTPUT:

DOCTOR

INPUT:

TTTSFFFPPPPPPFFFPDDNNNNIIIO

OUTPUT:

NOT A DOCTOR