

This document details the Slot Analysis as well as Answers to Questions that students recollected post their TCS NQT(Slot 3) on 25th October 2020

Disclaimer:

1. The questions showcased in this document have been recreated through memory, thanks to test-takers who recalled the questions post their test.
2. The question repetition between slots is very miniscule.
3. Please use this document as an indicative preparation tool, rather than an exact replica of questions that appeared or can appear in the TCS NQT.

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TCS NQT Online Test Pattern

The pattern that was followed for the TCS NQT was as follows.

Section Order	Section	# Qs	Duration (minutes)
1	Numerical Ability	26	40
2	Verbal Ability	24	30
3	Reasoning Ability	30	50
4	Programming Logic	10	15
5	Coding	2	45

Syllabus

The following was the syllabus which was tested in the slot.

Numerical ability:

- Data Interpretation
- Statistics
- Time and Work
- Mensuration
- Number System
 - Divisibility rule
 - LCM & HCF
- Time, Speed and Distance
- Ratio and Proportions
- Linear Equations
- Simple Interest and Compound Interest
- Percentages
- Profit and Loss
- Mixtures and Alligations
- Simplification – Fractions and BODMAS
- Surds and Indices

Verbal Ability:

- Reading Comprehension
- Passage Completion - Missing words (Cloze passage)
- Passage Completion - Missing sentences
- Error spotting
 - Prepositions
- Sentence Completion
 - Phrasal verbs
 - Prepositions
 - Pronouns
- Knowledge of Formal/Informal language
- Sentence improvement
- Parajumbles

Reasoning Ability:

- Attention to detail
- Unboxing a cube
- Data Arrangements
- Cuts and unfolds
- Venn diagrams

- Blood relations
- Data Interpretation
- Visual reasoning
- Data sufficiency
- Syllogisms
- Statements and Assumptions
- Odd one out
- Rule based decision making
- Decision tables
- Linear equations

Programming MCQ's:

- Operators
- Looping statements
- Control statements
- Arrays
- Strings
- Functions
- Object Oriented Programming (OOPS)
- Standard Template Libraries (STL)
- Object Modeling
- Compiler Design
- Threading
- Data Structures: Linked List, Stack, Queue, Trees and Graphs
- Recursion
- Pseudocoding
- Algorithms
- Basic Software Development Cycle

Coding:

- Fundamentals of Programming - Conditional and looping statements, Arrays, Strings.

Slot Analysis

- The assessment platform used was TCS iON.
- As already revealed during the DRC and by FACE Prep, both intra-sectional and inter-sectional navigation were not possible.
- Every question was mandatory, and only upon completing a question would you be able to go to the next question.
- Revisiting of answers already submitted is not possible.

- There was no negative marking.
- All test-takers within the slot got the same questions.
- The test was **NOT Adaptive**, for a lot of other websites incorrectly communicated this to students. FACE Prep accurately pointed out that the test was not adaptive – just that the test had no intra-sectional and inter-sectional navigation.
- There was **100% repetition of topics, as accurately predicted by FACE Prep**.
- There was the presence of an on-screen calculator, which candidates could use.
- As clearly pointed out in the test instructions by TCS, if one had to do rough work, it must be visible clearly in the webcam that one is doing rough work and not performing any malpractice. This has also been **accurately pointed out by FACE Prep** earlier.
- There were two Fill in the Blanks type questions in the programming MCQs section.
- As opposed to what was predicted earlier, **an error log is generated in the compiler** in the event of Compilation error. It mentions what error and where the error is (line number)
- Most students have been complaining about the Coding Compiler not working properly on Python. What doesn't work is the tab key for indentation. Instead, please use the space bar. Several students have been able to use this tactic to compile successfully.

Questions with Answers:

Numerical Ability

Q1. Rani purchased 5 cows and 2 horses for Rs.66000. When she sells the cows at 15% profit and the horses at 10% profit, she earns a total profit of Rs.9100. What is the difference between the cost price of one cow and that of one horse?

- A. Rs. 2500
- B. Rs. 3000
- C. Rs. 2000
- D. Rs. 4600

Answer: Option C

Q2. If $x = -3 + 3^{-\frac{2}{3}} + 3^{\frac{2}{3}}$ what will be the value of $x^3 + 9x^2 + 24x$?

- A. $-9 \frac{1}{9}$
- B. $8 \frac{1}{9}$
- C. $9 \frac{1}{9}$
- D. $-8 \frac{8}{9}$

Answer: Option D

Q3. If the area of a rectangle is 1260 cm^2 and its perimeter 146cm, what is the length of a diagonal?

- A. 45 cm
- B. 28 cm
- C. 53 cm
- D. 44 cm

Answer: Option C

Q4. A certain sum of money invested at S.I amounts to Rs.990 in 3 years and to Rs.1125 in $4 \frac{1}{2}$ years. What is the rate of interest per annum?

- A. 13%
- B. 12%
- C. 13.5%
- D. 12.5%

Answer: Option D

Q5. The salaries of A,B and C are in the ratio 4:10:25.If the increments of 30%, 15% and 25% are provided to A, B and C respectively in their salaries, what will be the ratio of their new salaries?

- A. 104 : 230 : 625
- B. 250 : 201 : 525
- C. 260 : 231 : 450
- D. 265 : 231 : 575

Answer: Option A

Q6. A man can row 32Km upstream and 48Km downstream in 14hours. Also he can row 24Km upstream and 40Km downstream in 11 hours. Then, what is the speed of the man in still water?

- A. 2Km/hr
- B. 4Km/hr
- C. 6Km/hr
- D. 8Km/hr

Answer: Option C

Q7. If $x = \sqrt{28 + 5\sqrt{12}}$ and $y = \sqrt{37 + 10\sqrt{12}}$, what is the value of $\frac{x-y}{x+y}$?

- A. $\frac{10 - 9\sqrt{3}}{73}$
- B. $\frac{9 - 10\sqrt{3}}{73}$
- C. $\frac{9 + 10\sqrt{3}}{73}$
- D. $\frac{10 + 9\sqrt{3}}{73}$

Answer: Option B

Q8. A student travelled from his village to the school at the rate of 20 Km/hr and walked back at the rate of 15Km/hr. If the whole journey took 1 hr 24 minutes, the distance of school from his village is-

- A. 24 Km
- B. 17.5 Km
- C. 15 Km
- D. 12 Km

Answer: Option D

Q9. The marked price of an article is Rs. 300. After allowing a discount 15% on the marked price, the shopkeeper makes a gain of Rs. 15. What is the gain percentage?

- A. $4 \frac{1}{5}$
- B. $5 \frac{1}{4}$
- C. $6 \frac{1}{4}$
- D. $4 \frac{1}{6}$

Answer: Option C

Q10. A sum of 5250 is divided among A, B, C and D such that $A : B = B : C = C : D = 3 : 4$. What is the sum of A and B shares?

- A. 2000
- B. 270
- C. 1850
- D. 1890

Answer: Option D

Q11. If a student scores 15% and fails by 70marks, while another student who scores 45% marks gets 50 marks more than the minimum required marks to pass the examination, what are the minimum marks to pass the examination?

- A. 100
- B. 180
- C. 150
- D. 130

Answer: Option D

Q12. Simplify $6\frac{1}{3} + (5\frac{5}{6} / 2\frac{1}{3} - 2\frac{1}{3} \text{ of } 7\frac{1}{2}) + 13\frac{1}{2}$

- A. $6\frac{1}{3}$
- B. $5\frac{1}{2}$
- C. $4\frac{5}{6}$
- D. $5\frac{1}{3}$

Answer: Option C

Q13. If mean of 29 observations is 33 and on adding one more observation the new mean becomes 34. What is the value of the 30th observation?

- A. 68
- B. 34
- C. 55
- D. 63

Answer: Option D

Q14. Compounded at the same rate of interest, a certain sum of money amounts to Rs.58080 after 2 years and Rs.63,888 after 3 years. What is the sum?

- A. Rs.46000
- B. Rs.52800
- C. Rs.48000
- D. Rs.45000

Answer: Option C

Q15. A train running at a speed of 36Km/hr takes 30 seconds to cross a platform and 15 seconds to pass a man walking at 6Km/hr in the opposite direction in which the train is going. Then what will be the length of the platform?

- A. 140m
- B. 150m
- C. 175m
- D. 125m

Answer: Option D

Q16. If the HCF of two numbers is 17 and LCM is 1309, which of the given options could be one of the two numbers?

- A. 170
- B. 119
- C. 167
- D. 153

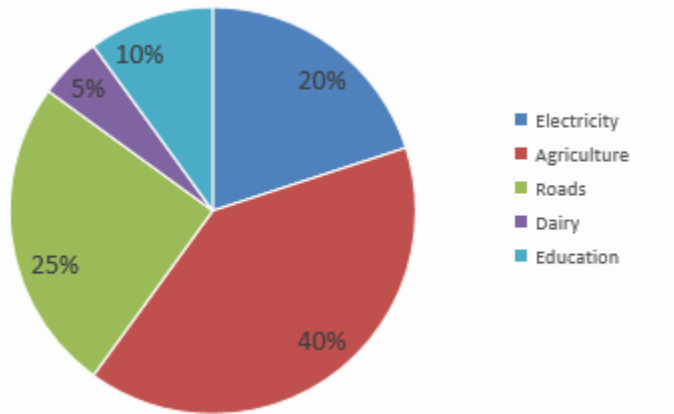
Answer: Option B

Q17. In an election between two candidates, 70% of the total votes enrolled were polled. Out of which 4% votes were declared invalid. A winning candidate got 12600 votes, which were 60% of the valid votes. The number of voters cast their vote will be

- A. 31250
- B. 32050
- C. 21875
- D. 22125

Answer: Option C

Q18. Consider the following pie chart of 2019-2020 Punjab State Budget. If a total expenditure of Rs. 180 millions was increased, what is the difference between the budget allocated for agriculture and Roads in millions?



- A. 36
- B. 72
- C. 45
- D. 27

Answer: Option D

Verbal Ability

Q1. Fill in the blanks with most appropriate set of words from the option given below:

What did the painter do _____ himself from falling?

When he felt the ladder _____, he grabbed the gutter to save himself from falling.

- A. To save/beginning to slip
- B. For saving/began to slip
- C. To save/began slipping
- D. To save/begin to slip

Answer: Option B

Q2. One part of the sentence below may contain an error. Identify the part. If there is no error, choose 'No error'

My grandmother/ always goes to school with me/ because the school was attached to the temple.

- A. Always go to school with me
- B. Because the school was attached to the temple

- C. My grandmother
- D. No error

Answer: Option A

Q3. One part of the sentence below may contain an error. Identify the part. If there is no error, choose 'No error'

As before, he kept off the beat track,/ making his way through open meadows,/ and patches of trees.

- A. As before, he kept off the beat track
- B. making his way through open meadows
- C. No error
- D. and patches of trees.

Answer: Option A

Q4. Fill in the blanks with most appropriate set of words from the option given below:

Everyday we are _____ with hundreds of advertisements. They range from commercials on T.V, billboards on roadsides, posters on walls as also brochures and pamphlets _____ on streets.

- A. confounded/distributing
- B. faced/distributive
- C. bombarded/distribution
- D. bombarded/distributed

Answer: Option D

Q5. For the four sentence (S1 to S4) paragraph given below, sentences S1 & S4 are given. From the options P, Q and R, choose appropriate sentences for S2 & S3.

S-1: After refreshing himself with sleep and food, they set off briskly carrying his little ailing sister on the back

S-2:

S-3:

S-4: These thoughts pursued and tormented him throughout

Options

P: Holland, to him now did not seem very far off

Q: He was worried, though, about the safety of his mother who he had left behind

R: He did not know when he would finally return to her

- A. RQ
- B. RP
- C. QP
- D. PQ

Answer: Option D

Q6 to Q8: Read the following passage carefully:

“If we don’t laugh, we’ll cry” is a phrase that often rings true. That said, if I so much as hear “coronavirus” at bedtime, a good night’s sleep gets replaced with a lengthy late-night nap, as I’ll lay awake processing the scope of this massive tragedy into the wee hours. That’s why, in order to get some sleep and preserve what’s left of my mental health, I’ve decided to ban any form of entertainment but comedy past eight o’clock at night. And apparently, “I’m not alone”, says Vivian.

Scott Weems, cognitive neuroscientist and author of *Ha! The Science of When We Laugh and Why*, says the need to seek out humor during tragic times like these is a common coping mechanism. “It’s easy to go into a pretty negative rabbit hole with news and everything else,” he says. “There’s so much in the world that can make you laugh or cry, and it’s your choice which of those two to do.” There are moments when a craving for comedy can feel inappropriate and awkward, but Weems says there are both emotional and physical health benefits to laughing.

Q6. Based on your understanding of the passage answer the following questions by choosing the best option.

“Apparently, I’m not alone.” What does Vivian mean by this?

- A. She finds the comedy show so engaging that she forgets her fears.
- B. There are others too, who seek out humour like her.
- C. Her friends are with her and she watches the show.
- D. She is able to connect emotionally with the comedians.

Answer: Option B

Q7. The passage tries to analyse the

- A. Benefits of humour
- B. Fear caused by coronavirus
- C. Learning to laugh
- D. Craving for comedy

Answer: Option A

Q8. It's easy to go into a pretty negative rabbit hole with news and everything else.

In this statement, the expression 'negative rabbit hole implies

- A. A confused and bizarre state of mind
- B. A situation which opens up new avenues
- C. Dwell upon information and news
- D. A rabbit's burrow

Answer: Option A

Q9. The following sentence can be revised so that it reads better. Choose the sentence that is the best revision.

A team of Health inspectors are in the process of currently investigating the restaurant. It is likely that they may completely close it down in about 3 to 5 days

- A. A team of Health inspectors are in the process of currently investigating the restaurant. It is likely that they may completely close it down in about 3 to 5 days.
- B. A team of Health inspectors are currently investigating the restaurant and they may completely close it down in about 3 to 5 days.
- C. A team of Health inspectors investigating the restaurant. It is likely that they may completely close it down in about 3 to 5 days.
- D. A team of Health inspectors are currently investigating the restaurant and may close it down in about 3 to 5 days.

Answer: Option B

Reasoning Ability

Q1. Statement:

Pollution is damaging our earth securely and we need to realize its effects and prevent this damage.

Courses of Action:

- I. Government should control unnecessary human actions which damage the environment in many ways.
 - II. The Pollution Control Board should close down all industries in the residential areas.
 - III. Spread awareness among the masses to reduce and prevent pollution.
- A. Only I and II follow.
 - B. All I, II and III follow.
 - C. Only III follows
 - D. Only I follows

Answer: Option B

Q2. In a family of ten persons with three couples, each having two children, R and T are brothers and each has two children. P is the father of T and Q is mother of R. B is the brother of A, who is the cousin sister of C.

- A. Sister
- B. Brother
- C. Grandson
- D. Cousin

Answer: Option C

Q3. In a row, seven people are standing for march past.

- I. B is standing right to A and left to C.
- II. D is standing left to E but right to C.
- III. F is standing right to E and left to G.

Who is standing in the middle of the row?

- A. D
- B. Either B or G
- C. A
- D. Either C or E

Answer: Option A

Q4. The following are the criteria for selecting a school psychologist for a reputed school.

The candidates must:

- (i) be a Postgraduate in Psychology with more than 60% in the Postgraduate examination
- (ii) have Postgraduate diploma in Guidance and Counseling.
- (iii) have secured more than 65% in the interview and at least 60% in the written test.
- (iv) have at least 3 years of experience in the relevant area.

In case of the candidates who satisfies all other criteria except -

- (a) at (i), above, but has secured more than 65% in the written test as well as in the interview, his/her case is to be referred to the Management.
- (b) at (ii) and (iii) above, but has more than ten-year experience in relevant field, his/her case is to be referred to the Principal,

Dinesh has done his Master's degree in Psychology with 65% of marks. For the last 10 years, he has been working as a School psychologist/counselor written test.

Based on these criteria and information provided, decide the course of action.

- A. Could not be selected
- B. Refer to the management
- C. Could be selected
- D. Refer to the principal

Answer: Option D

Q5. Which is the wrong term in the following series?

dgf, fhx, iku, mor, rtl, xzf

- A. xzf
- B. iku
- C. dgf
- D. Mor

Answer: Option C

Q6. In a school, 30% of the boys are illiterate while 80% of the girls are literate. If the ratio of the boys to that of the girls is 2:3, then what %age of the students is literate?!

- A. 35 percent
- B. 27 percent
- C. 65 percent
- D. 76 percent

Answer: Option D

Q7. Deepika appeared in five subjects, P, Q, R, S and T in an examination. She has scored an average of 36 marks in all subjects. Her mark in subject S is 5 marks more than that in subject T while in subject T she scored 8 marks fewer than in P and in subject Q she scored as many as in subject S and T. She scored a total 107 in both subject Q and R. How many marks Deepika obtained in subject T?

- A. 30
- B. 52
- C. 65
- D. 20

Answer: Option D

Q8. Given below is a question followed by three statements, I, II and III, each containing some information. Decide which of the statement(s) is/are sufficient to answer the question.

How is A related to B?

Statements:

- I. A is husband of C.
- II. C has two children B and D.
- III. C is married to D's father A.

How is A related to B?

- A. Statement III alone is sufficient
- B. Either I and II or II and III together are sufficient
- C. Statement II alone is sufficient
- D. Statement I alone is sufficient

Answer: Option B

Q9. In a sports academy, T-shirts were to be equally distributed among 125 athletes. At this occasion, 35 athletes were absent and therefore each athlete got 4 t-shirts extra. How many t-shirts in total, were available for distribution?

- A. 3200
- B. 2800
- C. 2400
- D. 2900

Answer: Option B

Q10. In each of the five pairs of letter-clusters, the letters in the second term is a rearranged/transformed form of the letters in the first term in a particular pattern. In which two pairs, the transformation has been done the same way?

- [A] RDXPQ - XDPRQ
 - [B] MUKHI - KUMIH
 - [C] GTRSK - RTGKS
 - [D] PKRHU - UPHRK
 - [E] MPQTJ - MTJQP
- A. B and C
 - B. D and B
 - C. A and D
 - D. A and C

Answer: Option A

Programming Logic

Q1. The primary mission of an analyst or systems designer is to _____

- A. Extract the physical requirements of the user and convert them to the software
- B. Calculate the return on investment
- C. Create a data flow diagram
- D. Development of software evaluation tool

Answer: Option A

Q2. The statement `printf ("%d, 25 ? 5 ? 0 : 5 : 25);` will print

- A. 5
- B. Compile time error
- C. 0
- D. 25

Answer: Option C

Q3. When we execute the given code what will be the value of x and y?

```
1 #include<stdio.h>
2 #include<conio.h>
3 void swap (int &x, int &y)
4 {
5     int temp;
6     temp = x;
7     x = y;
8     x = temp;
9 }
10 int main()
11 {
12     int x = 10,y = 20;
13     swap(x,y);
14     cout<<x<<y;
15     return 0;
16 }
```

Enter your answer only as numeral

Answer: 1020

Q4. What will be the return value of fseek() function if error occurs?

- A. Any non zero value
- B. 0
- C. NULL
- D. 1

Answer: Option A

Q5. What will be the output of the following program?

```
1 public class Main
2 {
3     public static void main (String args[])
4     {
5         int i=1,j=1;
6         for( ;j<=i;System.out.println(i+"-"+j++));
7     }
8 }
```

Answer: 1-1

Q6. Integer m=10, n= 35, p=5, d=6

Comment about the output of the given two statements

Print $m*n + p/d$

Print $p/d + m*n$

- A. Differ by 10
- B. Same
- C. Differ by 20
- D. Differ due to left and right precedence

Answer: Option B

Q7. Which of the following is incorrect syntax for function declaration with default argument?

- A. `int foo(int x= 10, int y=20, int z=30);`
- B. `int foo(int x, int y=20, int z =30);`
- C. `int foo(int x, int y, int z =30);`
- D. `int foo(int x, int y=20, int z);`

Answer: Option B

Q8. When we implement stack by using linked list then:

- A. Insertion of node is done from end and deletion from end
- B. Insertion of node is done from beginning and deletion from end

- C. Insertion of node is done from beginning and deletion from beginning
- D. Insertion of node is done from end and deletion from beginning

Answer: Option C

Q9. What will be the output of the below code?

```
1 class Test1
2 {
3     private static int add(int a, int b)
4     {
5         System.out.println("Inside private method");
6         return a + b;
7     }
8     protected static int add(int a, int b, int c)
9     {
10        System.out.println("Inside protected method");
11        return a + b + c;
12    }
13 }
14 public class Main extends Test1
15 {
16     static int add(int a, int b, int c)
17     {
18         System.out.println("Inside static method");
19         return a + b + c;
20     }
21     public static void main(String[] args)
22     {
23         Main t = new Main();
24         System.out.println(t.add(10,20,20));
25     }
26 }
```

- A. Inside protected method
- B. Compilation error
- C. Run time error
- D. Inside static method

Answer: Option B

Q10. Match the followings:

Match functions usage C language		Output in float data type format	
A	ceil(3.6)	1	32.000000
B	floor(3.6)	2	3.000000
C	pow(2, 5)	3	12.000000
D	abs(-12)	4	25.000000
		5	4.000000
		6	0.000000

- A. A-5, B-2, C-4, D-3
- B. A-2, B-5, C-4, D-3
- C. A-5, B-2, C-1, D-6
- D. A-2, B-6, C-1, D-3

Answer: None of the mentioned options is correct. The correct answer is
A - 5, B - 2, C - 1, D - 3

Coding

Q1. One private Car Parking service CPS Offers service for cars to be parked in their area for specific duration. CPS don't allow car drivers to enter and choose location rather they hand over the keys and cars at the gate from where the staff takes cars into the parking zone where each car is parked at the next available position of last car parked and returns the key with CPS Tag to the Car Driver. If Parking slots are full, extra cars cannot be parked.

CPS maintains the record for each car placed at a particular slot with car plate number, so that when Owner comes to take his/her Car it will be easy to find the exact position of where the car has parked. For example, list of Car Plate Numbers can be as per Car's position in the CPS Parking area.

Write code for 2 functionalities as

1. The Park(String plateNumber) function which takes a plateNumber of newly entered Car and allocates a position in the list. That is adding Car to the parking area to the next position of the last Car parked.

2. The Search(String plateNumber) function should return

The Car Position as output for the given input is Car Plate Number.

Name Plate String can have minimum 6 and maximum 12 numbers of characters. Ignore decorating or separator characters.(Data Structure used to hold CPS car parking data must be initialized with following Car numbers for better output.) CPS = [MH04CC2,MH04C2820, MHO4BB3232, MH04CC2113, MHO4CC2878, MHO4BB8, MH04CC2888, MH04CC1313, MH04CC2222, MH04C1201, MH04CC555, MH04C6565, MHO4A7]

Input should be as follows:

1

MHCC2222

Note: 1 should be entered for car parking and 2 should be entered for car searching along with car plate number.

Output must be in format as follows:

- **"CAR PARKED AT POSITION:<number>"**, if option 1 is selected with valid car plate number as input
- **CAR POSITION:<number>"**, if option 2 is selected and valid car number is entered which is already present in CPS
- **"CAR DOES NOT EXISTS"**, if option 2 is selected and valid car number is entered which is not present in CPS **"INVALID INPUT"**, if option entered is other than the value 1 or 2 or if invalid car number is entered

Test case 1:

Case 1:

Example

INPUT VALUE:

2

MH04CC278

OUTPUT VALUE:

CAR POSITION: 5

Solution in Python:

```
1 CPS=["MH04CC2","MH04C2820","MH04BB3232","MH04CC2113",
2      "MH04CC2878","MH04BB8","MH04CC2888","MH04CC1313",
3      "MH04CC2222","MH04C1201","MH04CC555","MH04C6565",
4      "MH04A7"]
5 def Search(PlateNumber):
6     for pos,num in enumerate(CPS,1):
7         if(PlateNumber==num):
8             return pos
9     return -1
10 def Park(PlateNumber):
11     for pos,num in enumerate(CPS,1):
12         if(PlateNumber==num):
13             return (pos*2)
14     return -1
15
16 a=int(input())
17 if(a==1 or a==2):
18     number=input()
19     numlen=len(number)
20     if(numlen<6 or numlen>12):
21         print("INVALID INPUT")
22     elif(a==2):
23         pos=Search(number)
24         if pos>0:
25             print("CAR POSITION:",pos,sep="")
26         else:
27             print("CAR DOES NOT EXISTS")
28     elif(a==1):
29         pos=Park(number)
30         if(pos>0):
31             print("CAR POSITION:",pos,sep="")
32         else:
33             print("INVALID INPUT")
34 else:
35     print("INVALID INPUT")
```

Q2 . In one pass, Train A can start from source station at time Troj ,halt at each station for h unit of time until it reaches the last station at time T(n-1], where n is the positive Integer representing total number of stations.

Given, Train A's timings

T [0] = 10.00 T [1] = 10.04 T[2] = 10.09 T [3] = 10.15 T[4] = 10.19 T[5] = 10.22.

Now, suppose Railway Admin want to add more trains to increase the frequency. So, to launch other Train B, for the same stations as of Train A's. Provided the train B starts at time t, they would like to know the timings for train B.

The program should return a String array S (timestamps(in float) for train B at each station from first to last station like train A).

Note that time is represented in 24 Hour Fashion.

startHour should be in range 0... 23.

startMinute should be in range 0.... 59.

Enter start time(24 Hrs)

Example 1:

11.00

11.00 11.04 11.09 11.15 11.19 11.22

Example 2:

-26.15

INVALID INPUT

Note: Input and Output should be formatted as given in example.

For any wrong value input display "INVALID INPUT"

Solution in Python:

```
1 N = float(input())
2 M = str(N)
3 M = list(map(int,M.split(".")))
4 if(M[0]==10 and M[1]<=22):
5     print("INVALID INPUT")
6 elif(((M[0]>=0 and M[0]<=23) and (M[1]>=0 and M[1]<=59))):
7     print("{:.2f} {:.2f} {:.2f} {:.2f} {:.2f} {:.2f}".format
8           |(N,N+0.04,N+0.09,N+0.15,N+0.19,N+0.22))
9 else:
10    print("INVALID INPUT")
```