FORM TP 2010076

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MAY/JUNE 2010

CARIBBEAN EXAMINATIONS COUNCIL

SECONDARY EDUCATION CERTIFICATE EXAMINATION

GEOGRAPHY

Paper 03/2 – General Proficiency

1 $\frac{1}{2}$ hours

Answer ALL questions.

In addition to the 1 $\frac{1}{2}$ hours, candidates are advised to spend 15 minutes reading through this paper and planning their responses. Writing MAY begin during this time.

READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. This paper consists of **SIX** questions.
2. Answer **ALL** questions.
3. Write your answers in the spaces provided in this booklet.
4. The use of non-programmable calculators is permitted.
5. The use of geometrical instruments is permitted.

DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

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Answer ALL questions.

You are advised to spend no more than 15 minutes on Question 1.

1. A map extract of Pointe Michel, Dominica, at a scale of 1:25 000 is provided as an insert for this question.

(a) Figure 1 is a sketch outline map of the extract at a scale of 1:100 000. Show the position of Pointe Michel, Berekua and Geneva Estate on Figure 1.

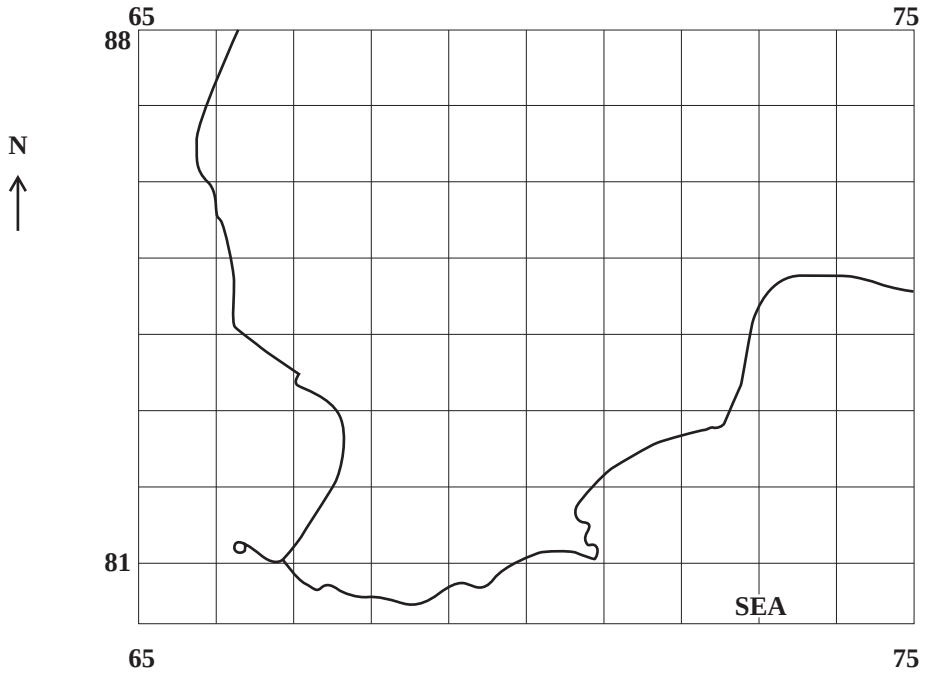


Figure 1. Position of Geneva Estate, Dominica

(1 mark)

(b) Figure 2 is an incomplete sketch map showing part of the map extract between Eastings 71 and 74 and Northings 84 and 87 at the same scale as the extract. The coast, some rivers and some roads are shown.

Complete the sketch map in Figure 2 by adding the following:

– The road going towards the point 710870
– The villages of Berekua and Geneva
– Geneva Estate
– The Micham River
– The forested area

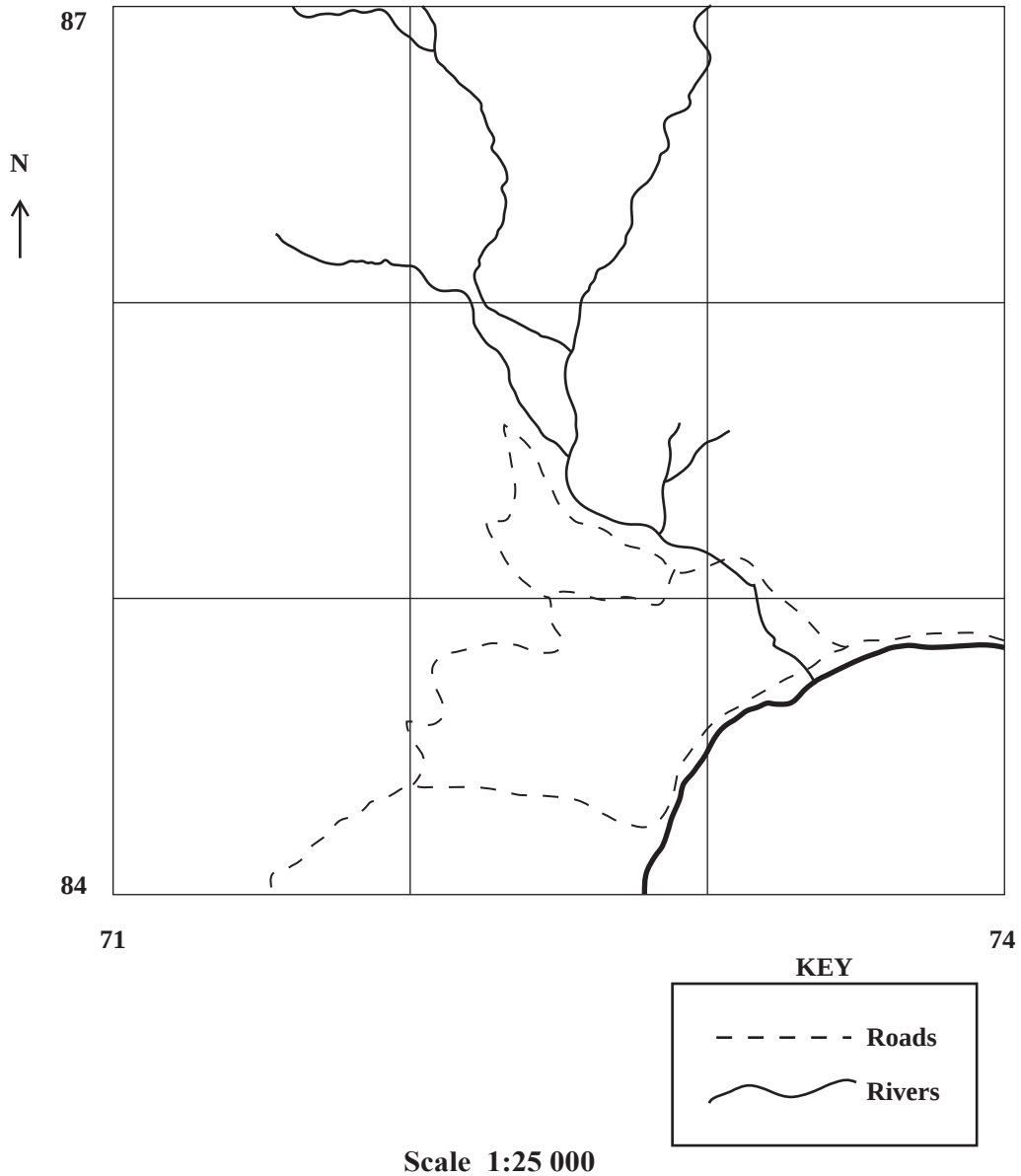


Figure 2. Location of Geneva Estate, Dominica

(3 marks)

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2. You are conducting research to find out if farming practices at a banana estate have been influenced by the changes in the international marketing of bananas over the last five years. Frame a question or state a hypothesis (your belief) which will guide the collecting of data in the field. This will be the 'Purpose' or 'Aim' of your research.

_____

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_____

(2 marks)

3. (a) For your research in Question 2, list SIX items (EXCLUDING the size and position of the estate) on which you would collect information about farming practices in the field.

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(6 marks)

(b) Describe how and when you would conduct the research and record the data.

How: _____

_____

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(3 marks)

When: _____

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(2 marks)

(c) (i) Identify ONE problem (EXCLUDING the weather, illness and injury) that you may encounter in conducting the research in 3 (b) on page 4.

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(1 mark)

(ii) State how you would overcome the problem that you identified in 3 (c) (i) above.

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(2 marks)

4. Study Table 1, which presents the results of a survey of the channel of a stream at two stations on the same day. The stations are about 1 km apart. Measurements were taken at intervals of 50 cm across the stream, starting and ending 25 cm from the edge of the water in both cases.

TABLE 1: CHANNEL CROSS-SECTION MEASUREMENTS FROM THE LEFT BANK

	Station A	Station B
Point	**Depth (cm)**	**Depth (cm)**
1	**10**	**15**
2	**20**	**20**
3	**30**	**30**
4	**20**	**35**
5	**20**	**45**
6	**30**	**33**
7	**35**	**20**
8	**15**	**12**
Nature of Bed	**Coarse Sand**	**Sand and Pebbles**

(a) Using the data in Table 1, prepare a diagram of the cross-section of the channel at **Station A** on the graph axes provided in Figure 3, where 1 cm represents 25 cm on both axes. Assume the sides of the channel are straight.

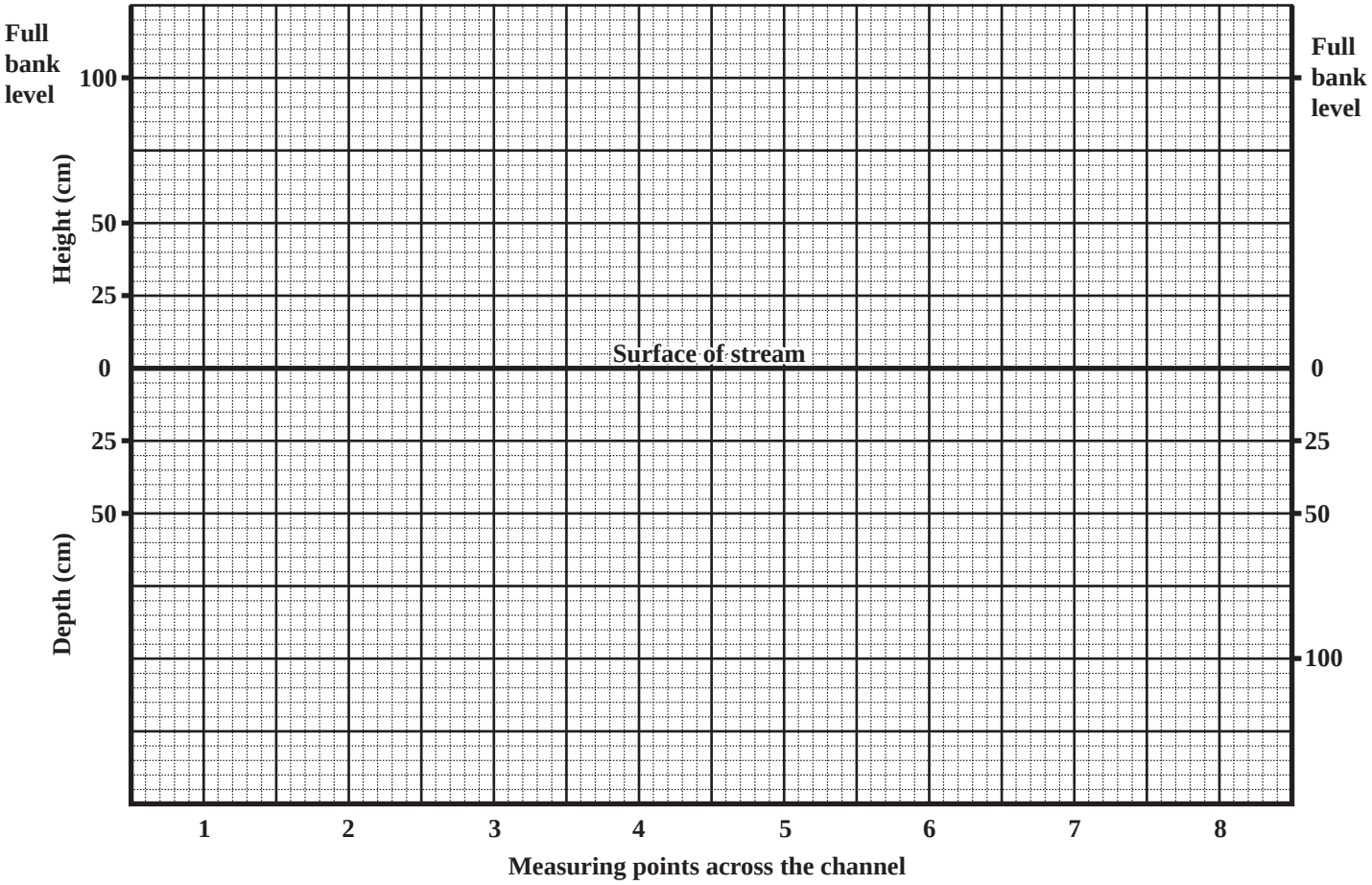


Figure 3. Cross-section of river channel at Station A

(3 marks)

GO ON TO THE NEXT PAGE

(b) Study the data in Table 1. Suggest THREE reasons for the differences in the shape of the channel shown by the measurements.

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(6 marks)

5. Table 2 presents data for the velocity of a stream at different fractions of its depth at a sample station.

TABLE 2: STREAM VELOCITY AT SELECTED FRACTIONS OF ITS DEPTH

Fraction of Depth Measured from Top	Velocity (m/sec)
0.1	0.75
0.2	0.72
0.3	0.67
0.4	0.63
0.5	0.57
0.6	0.52
0.7	0.43
0.8	0.30
0.9	0.09

(a) (i) Using the data in Table 2, calculate the average velocity and state the depth fraction it matches in Table 2.

(2 marks)

(ii) Give TWO reasons for the differences in velocity with depth.

_____

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(5 marks)

(b) On the axes provided in Figure 4, draw a line graph to illustrate the data presented in Table 2.

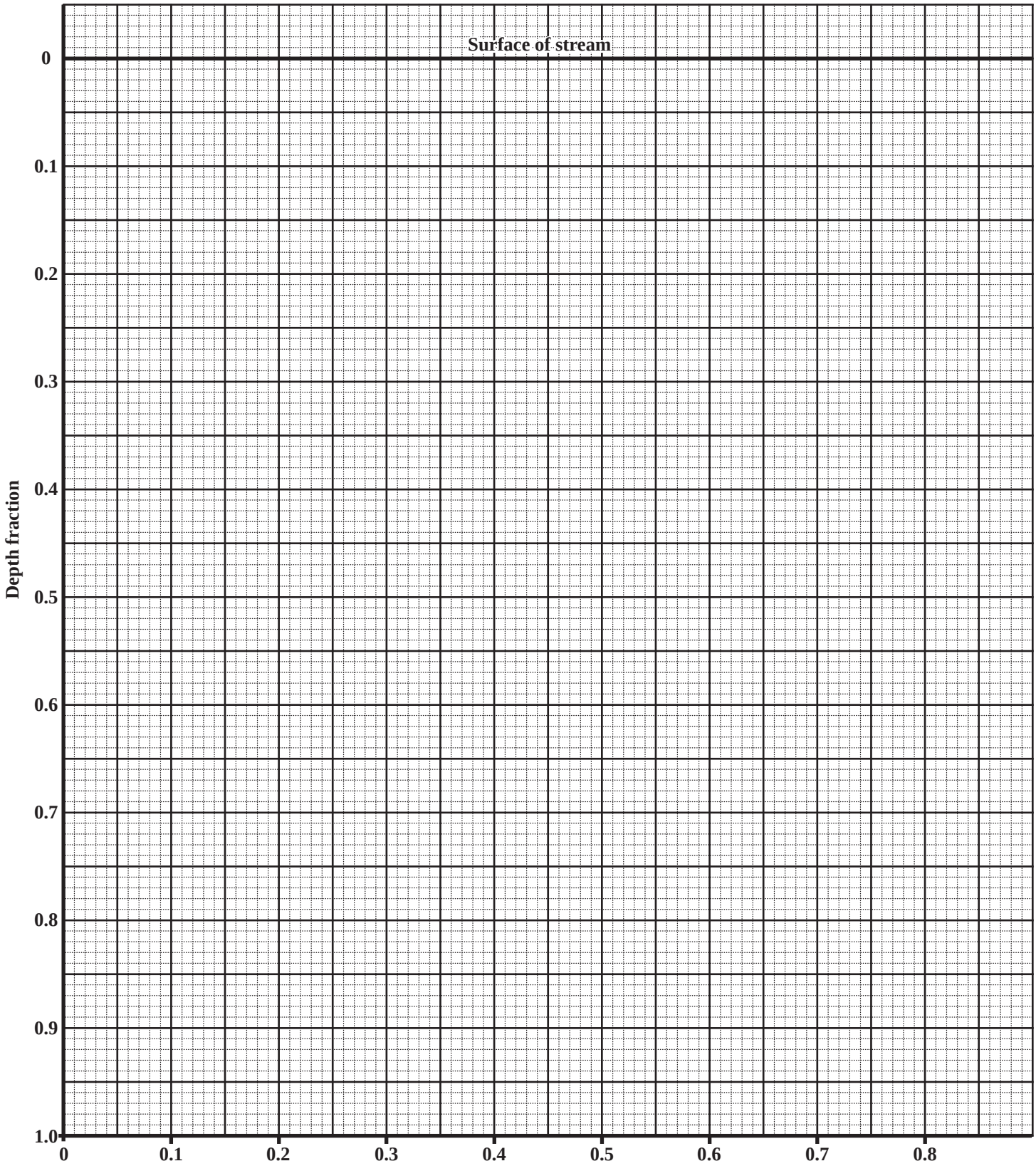


Figure 4. Graph of stream velocity at various fractions of depth

(3 marks)

GO ON TO THE NEXT PAGE

6. The five elements of a book which are used in a bibliography are:

– City of publication
– Name(s) of author(s)
– Name of publisher
– Title of publication
– Year of publication

List the FIVE elements in the sequence in which they should be given in the bibliography.

_____

_____

(1 mark)

Total 40 marks

END OF TEST

Extract No 819/SOUF

Four colours should appear above; if not then please return to the invigilator

Four colours should appear above; if not then please return to the invigilator

LESSER ANTILLES 1:25000
POINTE MICHEL



SCALE 1:25,000

Mile 1 ¾ ½ ¼ 0 1 2 3 4 5 Miles

Metres 1000 500 0 1 2 3 4 5 6 7 Kilometres

HEIGHTS IN FEET

Surfaced Road — Bridge
Unsurfaced Road
Track and four wheel drive trail
Footpath
Named Building
Other Building
Church, Chapel — Ch Cha
School — Sch
Court House, Hotel — Ct H H
Hospital, Cemetery — Hosp Cem
Police Station — Pol Sta
Post Office — PO
Locality Names — GRAND FOND
Fences, Hedges
Watercourse, Dam, Pond — Dam
Forest Reserve and National Park Boundaries
Parish Boundaries
Trigonometrical Stations:- Main △ " " :- Minor ▽
Heights in feet given to ground level — 1092
Contours V.I.50ft — 550 500 450
Forest
Low Forest, Woodland
Scrub
Line of Trees
Palms
Swamp
Mangrove
Cultivation and Plantation (C. Coconut) — C
Sand or Mud
Cliffs

The representation on this map of a Road, Track or Footpath, is no evidence of the existence of a right of way.

True North
Magnetic North 11°31′W
Grid North 10′01″E

At Sheet Centre
Magnetic Variation as at January 1975
Annual change 05′West

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