Hamiltonian graphs. Variant 1.

- 1. Solve the travelling salesman problem using:
- a) the branches and bounds method;
- б) the nearest neighbor method
- в) the Christophides method.

Compare the results.

	a	b	c	d	e	f
a		8	4	6	12	2
b	8		13	9	1	7
c	4	13		16	11	6
d	6	9	16		3	14
e	12	1	11	3		13
f	2	7	6	14	13	

2. Propose an algorithm for the travelling salesmen problem or for the Hamilton problem solving.

Hamiltonian graphs. Variant 2.

- 1. Solve the travelling salesman problem using:
- a) the branches and bounds method;
- б) the nearest neighbor method
- в) the Euler method.

Compare the results.

	a	b	c	d	e	f
a		12	4	14	12	7
b	12		13	9	6	7
c	4	13		17	8	6
d	14	9	17		4	3
e	12	6	8	4		11
f	7	7	6	3	11	

2. Propose an algorithm for the travelling salesmen problem or for the Hamilton problem solving.

Hamiltonian graphs. Variant 3.

- 1. Solve the travelling salesman problem using:
- a) the branches and bounds method;
- δ) the nearest insertion method
- в) the Christophides method.

Compare the results.

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	a	b	c	d	e	f
a		12	9	11	2	2
b	12		13	9	10	7
c	9	13		5	11	6
d	11	9	5		3	17
e	2	10	11	3		13
f	2	7	6	17	13	

2. Propose an algorithm for the travelling salesmen problem or for the Hamilton problem solving.

Hamiltonian graphs. Variant 4.

- 1. Solve the travelling salesman problem using:
- a) the branches and bounds method;
- б) the nearest insertion method
- в) the Euler method.

Compare the results.

	a	b	c	d	e	f
a		9	4	6	14	2
b	9		5	9	1	11
c	4	5		13	11	7
d	6	9	13		3	14
e	14	1	11	3		2
f	2	11	7	14	2	

2. Propose an algorithm for the travelling salesmen problem or for the Hamilton problem solving.