1. A bear starting from the point P, walked one mile due south,

Then he changed direction and walked one mile due east. Then he

turned again to the left and walked one mile due north and arrived at point P he started from what was the color of the bear?

2. Two towns A and B are 3 km s apart It is proposed to build

a new school serving 100 students in town A and 50 students

in town B. How far from town A should the school be built

if the total travel distance by all 150 students is to be as small as

possible?

3. A traveller arrives at hotel he has no money but only a silver chain consisting of 6 links. He uses one link to pay for each day

spent at the hotel but the hotel manager agrees to accept no more than one broken link

How should the traveller cut up the chain in order to settle the

amount with the hotel manager on a daily basis

1. what is the least number of links that have to be cut if the traveller stays 100 days at the hotel and has a chain cosisting

of 100 links? what is the answer in general case n days and n links

4. Rearrange the letters in the words new door to make one word

5. do divide and conquer 6 5 1 4 3 2

6, Draw flowchart for calculating simple interest

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1. Algorithm

Start

read(direction(bear))---> south 1 mile

read(direction(bear))--->east 1 mile

read(direction(bear))--->north 1 mile

read(destination(bear))--->north

print color of the bear ---> white

stop

since this happens only at the extreme poles so the color of bear at north pole is white

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2.

Start

read the distance between two towns -->3km

keep the school at town A and check the distance of school from A and B --> 0 and 3km

keep the school at town B and check the distance of school from A and B -->3km and 0km

keep the school at the middle of both towns and calculate the distance from town A and B --> 1.5 and 1.5km

Compare all the 3 distance

Print the optimal solution --> Placing in the middle

Stop

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3.

start

initially cut the chain into 3 parts consisting of links 1,2,3 which adds up to total of 6 links

for day 1 provide the 1 link

for day 2 take the 1 link back and give the 2 link segments which would be suffice for day 2

for day 3 give the 1 link back again so that now the hotel has 2+1=3 links for day 3

for day 4 take the 2 link back and give the 3 link segments so now hotel has 1+3=4 links for day 4

for day 5 take the 1 link back and give the 2 link segments so the hotel has 3+2=5 links for day 5

for day 6 give all the segments that would add upto 6 links.

Stop

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4.

start

store the words character wise in an array-->[n,e,w,d,o,o,r]

try all the combinations that would give a new word

print the final result-->one word

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5. 6 5 1 4 3

Start

Split the array into two parts--> [6,5] and [1,4,3]

Split the array again into 4 parts --> [6],[5] and [1],[4,3]

compare 6 and 5 and merge-->[5,6]

compare 1 and 4,3 and merge-->[1,3,4]

compare the array and merge -->[1,3,4,5,6]

Stop

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6. in the next page

6. Flowchart

Print S.I

S.I= (P\*N\*R)/100

Input P,R,N