Accenture Test 1

Test Summary

- No. of Sections: 4
- No. of Questions: 80
- Total Duration: 80 min

Section 1 - Quantitative Aptitude

Section Summary

- No. of Questions: 20
- Duration: 20 min

Additional Instructions:

None

Q1. Multiple Choice (Select 1 out of 4 options, fog the question below.)
If 11a+11b=33, what is the average of a and b?

- 3
- 2
- 4
- None of the above

Q2. Odometer is to mileage as compass is to

- speed
- hiking
- needle
- direction

Q3. A boys run 450m race in 60s. His speed is.

- 6. 4m/s
- 7.5m/s
- 8.6m/s
- 9.2

Q4. A train travels at 48krnthr low many metres will it travel In 15 min?

850m

900m

12000m

740m

Q5. identify the missing number in the series. 11.19.?,41.55

31

29

26

39

Q6. Find the compound interest on Rs. 600 for 2 Years at 5% p.a compunded annually

Rs 56. 50

Rs 61.50

64

56

Q7. If the sum of the number and its square Is 132, then what is we number

11

10

12

13

Q8. By selling 20 articles for a rupee a man loses 10%. How many for a rupee did ne buy?

16

18

14

12

Q9. A person buys a radio for Rs1030 and he spent Rs50 on its repairs. If he sold It for Rs1200, find the profit percent.

1033

1111

125

None of these

Q10. If the average of five consecutive numbers is 27, find the smallest number

23

24

25

28

Q11. 22% of 200 = ?

42

88

40

44

Q12. What is the probability 0f getting a sum 9 from two throws of a dice?

1/6

1/8

1/9

1/12

Q13. In a box. there are 8 red. 7 blue and 6 green baits One bal Is picked up redomly .what is the probability that it Is neither red no green?

1/3

3/4

7/19

8/21

Q14. A ratio equivalent to 3 :7?

3:9

6:10

9:21

18:49

Q15. Identity the missing number in the series
33.?.19.12.5

31

26

29

27

Q16. Multiple Choice Se ect 1 out of 4 options. tor the question below.)
Identify the missing number in the series. 11,19,?.41.55

31

29

26

39

Q17. The average of 20 numbers is zero. Of them. at the most, hard many may be greater than zero?

0

1

10

19

Q18. A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 5 km. Now in which direction Is he from the starting place?

- west
- south
- north-East
- south-west

Q19. 45% 0f 500 =?

- 210
- **225**
- 205
- 240

Q20. what least number must be added 1056, so that the sum is completely divisible by 23?

- 2
- 3
- 6
- 19

Section 2 - Verbal

Section Summary

- No. of Questions: 20
- Duration: 20 min

Additional Instructions:

None

Q1. Pen Is to poet as needle is to

- a. Thread
- b. Button
- c.Carpenter

d. Tailor

Q2. which of the following should be the fourth sentence .Rearrange the following 4 sentences meaning full
1.Its current was very powerful and could take big tree trunks
2.There wine some children, pawing on the bank of vasenvay
3.In the forest madhubani there is big take
4.The excess water staled flowing lerciehrly through the waterer
5.Once there was a very heavy Min Weave or mirth the lake sae overflowing
6.A poor man noticed It and maned to save them

a.5

b.4

c.3

d.2

Q3. Careful is to cautious as boastful is to

a.Arrogant

b.Humble

c. Joyful

d. Suspcious

Q4. Statement. It is desirable to put the child in school at the age of 5 or so.
Assumptions
I. At that age the child reaches appropriate level of development and is ready to learn.
II. The Schools do not admit children after six years of age.

a.Only assumption I is impicit

b. Only assumption II is impicit

c.either I or II impicit

d.neither I nor II impicit

Q5. Select the word, which corresponds to the correctly spelled word

a.occasionialy

b.occasionally

c.ocationly

d.occasionaly

Q6. Select the word. which corresponds to the correctly spelled word

a.committee

b.comite

c.commitee

d.comtee

Q7. To take secretly small quantities

a.robbery

b.Pilferage

d.deflection

c.theft

Q8. She exclaimed with sorrow that was a very miserable plight.

She said with sorrow, "What a pity it is."

She said with sorrow, "What a pity it is."

She said, "What a miserable sight it is."

She said, "What a miserable plight it is."

Q9. Which of the following should be the first sentence ?
Rearrange the following six sentences in proper sequence to form a meaningful paragraph, then answer the questions given below

1. Its current was very powerful and could take away big tree trunks
2. There were some children, playing on the bank of waterway
3. In the forest of Manhunt, there Is big lake
4. The excess water staled flowing forcefully through the waterway
5. Once there was a very heavy rain because of which the lake started overflowing
6. A poor man noticed it and rushed to save them.

a.6

b.5

c.4

d.3

Q10. Even a ------ glance will reveal the mystery.

a.crude

b.cursory

c.critical

d.curious

Q11. Please do not an otter made by the Chairman :

a.deny

b.refuse

c.relrain

d.none of these

Q12. Tanya is older than Eric.
Cliff is alder than Tanya.
Eric is rider than Cliff.
If the first two statements are true, the third statement is

a.True statements

b.false statements

c.uncertan

Q13. Either he or I am going.

a. he or are going

b. he is going or I am

c.i or he is going

d. no improvement

Q14. All the trees in me park are following trees.
Some of the trees in the park are dogwoods.
All dogwoods in the park are flowering trees.
If the first two statements are true, the third statement is

a.true statement

false statement

uncertan

Q15. Marathon is to race as hibernation is to?

a.winter

b.bear

c.dream

d.sleep

Q16. Which Of the following should be the third sentence ?
Rearrange the following six sentences In proper sequence lo form a meaningful paragraph, then answer the questions given below.
1. Its current was very powerful and could take away big tree hunks.
2. There were some children, playing on the bank of waterway
3. In the forest of Madhubani, there is big lake.
4. The excess water started flowing forcefully through the waterway
5. Once there was a very heavy rain because of which the lake started overflowing.
6. A poor man noticed it and rushed to save them.

a.6

b.5

c.4

d.3

Q17. Choose the word which is least like the other words in the group

a.BOY

b. CHILD

c.MAN

d.LADY

Q18. other countries have eradicated this disease ten years ago

a.eradicated

b.had eradicated

c.did eradicated

d.improvement

Q19. A disease of mind causing an uncontrollable desire to steal

a.Schizophrenia

b.claustrophobia

c.Kleptomania

D.magolomania

Q20. Which word does not have a similar meaning to **amiss**

a.improper

b.unsutable

c.avoid

d.incorrect

Section 3 - Reasoning

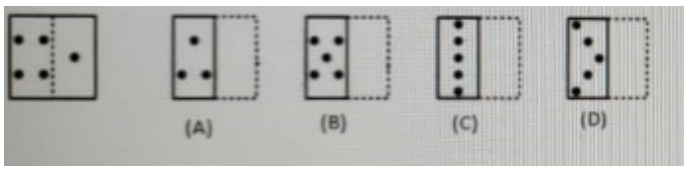
Section Summary

- No. of Questions: 20
- Duration: 20 min

Additional Instructions:

None

Q1. Find out from amongst the four alternatives as to how the pattern would appear when the transparent Sheet rs lobed at the dotted line



a.A

b.B

c.C

d.D

Q2. Odometer is to mileage as compass is to

a.speed

b.hiking

c.needle

d.direction

Q3. A girl Introduced a boy as the son of the daughter of the father of her uncle. The boy Is girl's?

a.BROTHER

b. SON

c. SON.IN LAW

d. NEPHEW

Q4. The Sawing show a sheet of paper which has been folded. The dashed lines indicate the where sheet, each drawing represents a single fold. The black square shows where a hole was punched. Where do the holes appear when the sheet is unfolded?

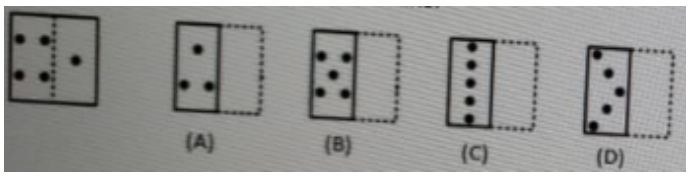
a.3A,2A.6D

b.3B,5A,6D

c.3A,5A,3D

d. 3A,2A

Q5. Find out horn amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.



a.A

b.B

c.C

d.D

Q6. identify the missing number in the series. 11.19.?,41.55

a.31

b. 29

c.26

d.39

Q7. In a box. there are 8 red. 7 blue and 6 green baits One bal Is picked up redomly .what is the probability that it Is neither red no green?

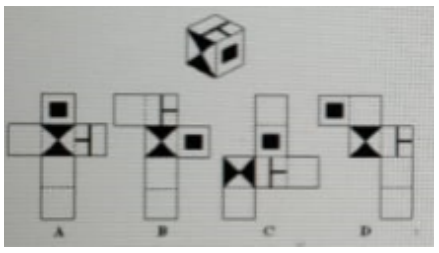
a.1/3

b.3/4

c.7/19

d.8/21

Q8. Which pattern can be folded to make the cube shown?



a.A

b.B

c.C

d.D

Q9. Identity the missing number in the series
33.?.19.12.5

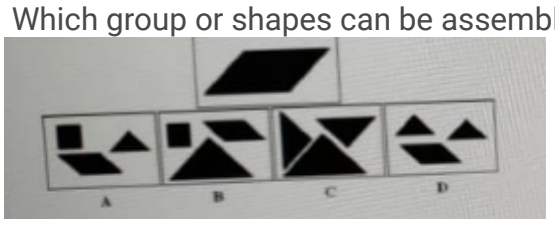
a.31

b.26

c.29

d.27

Q10. Which group or shapes can be assembled to make the shape shown,



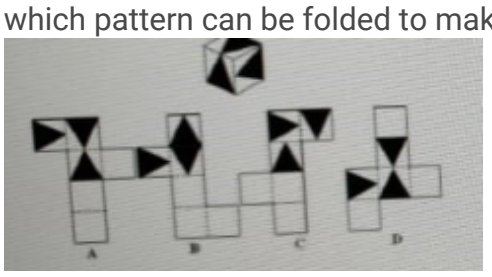
a.A

b.B

c.C

d.D

Q11. which pattern can be folded to make the cube shown?



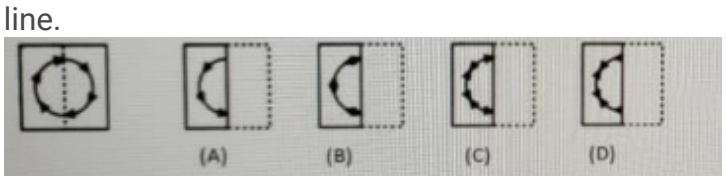
a.A

b.B

c.C

d.D

Q12. Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.



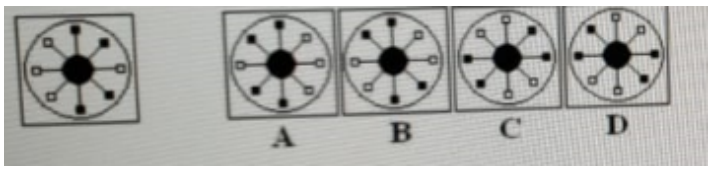
a.A

b.B

c.C

d.D

Q13. In the figures shown below. one of the shapes (A-D) is identical to the first figure but has been rotated. Which figure is Idenbcal to the first?



a.A

b.B

c.C

d.D

Q14. Identify the missing number in the series. 11,19,?.41.55

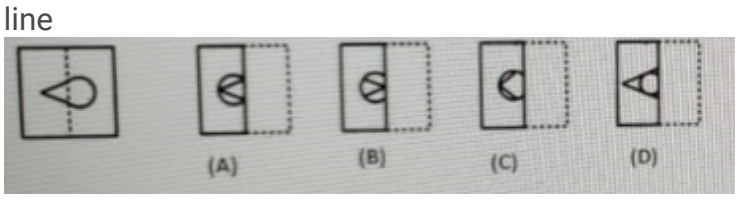
a.31

b.29

c.26

d.39

Q15. Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line



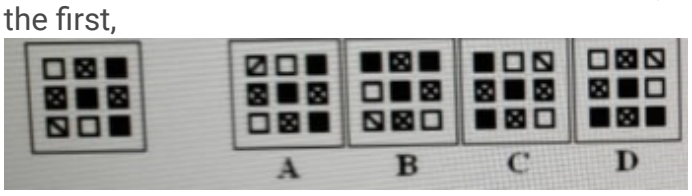
a.A

b.B

c.C

d.D

Q16. In the figures shown below. one of the shapes (A-D) is identical to the first figure but has been rotated Which figure Is identical to the first,



A

B

C

D

Q17. Find the odd one out.
6,9, 15, 21, 24, 28, 30

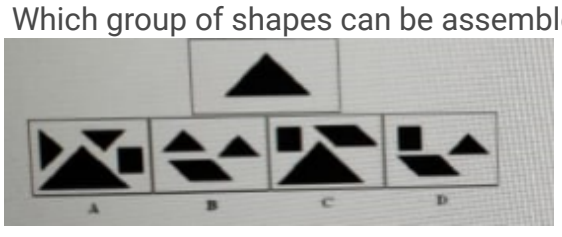
a.28

b.15

c.21

d.30

Q18. Which group of shapes can be assembled to make the shape shown?



a.A

b.B

c.C

d.D

Q19. Find the odd one out.
8, 27, 64, 100, 125, 216, 343

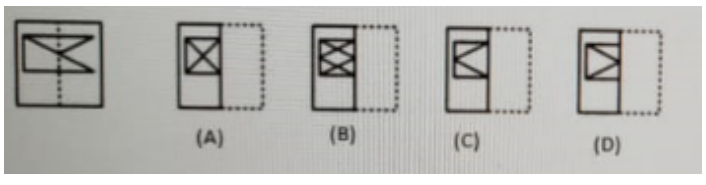
a.27

b. 100

c.125

d.216

Q20. Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line



a.A

b.B

c.C

d.D

Section 4 - Coding

Section Summary

- No. of Questions: 20
- Duration: 20 min

Additional Instructions:
None

Q1. What is the output of this C code?

```
  int main()
{
      int i = 5;
      int l = i / -4;
      int k = i % -4;
   printf("%d %d\n", l, k);
      return 0;
}
```

- Compile time error
- -1 1
- 1 -1
- Run time error

Q2. What is the output of this C code?

```
int main()
{
int i = 11;
int *p = &i;
foo(&p);
printf("%d ", *p);
}
void foo(int *const *p)
{
int j = 10;
*p = &j;
printf("%d ", **p);
}
```

- Compile time error
- 10 10
- Undefined behaviour
- 10 11

Q3. What is the output of this C code?

```
int main()
{
int x = 1;
short int i = 2;
float f = 3;
if (sizeof((x == 2) ? f : i) == sizeof(float))
printf("float\n");
else if (sizeof((x == 2) ? f : i) == sizeof(short int))
printf("short int\n");
}
```

float

short int

Undefined behaviour

Compile time error

Q4. What is the output of this C code?

```
void main()
{
int a[3] = {1, 2, 3};
int *p = a;
int **r = &p;
printf("%p %p", *r, a);
}
```

Different address is printed

1 2

Same address is printed.

1 1

Q5. Comment on the output of this C code?

```
void main()
{
int k = 8;
int m = 7;
int z = k < m ? k = m : m++;
printf("%d", z);
}
```

Run time error

7

8

Depends on compiler

Q6. Which of the following function declaration is illegal?

```
double func();
int main(){}
double func(){}
```

```
double func(){};
int main(){}
```

```
int main()
{
double func();
}
double func(){//statements}
```

None of the mentioned

Q7. What will be the data type of the expression (a < 50) ? var1 : var2; provided a = int, var1 = double, var2 = float

float

int

double

Cannot be determined

Q8. Value of c after the following expression (initializations a = 1, b = 2, c = 1): c += (-c) ? a : b;

syntax error

c = 1

c = 2

c = 3

Q9. Which of the following structure declaration will throw an error?

```
struct temp{}s;
main(){}
```

```
struct temp{};
struct temp s;
main(){}
```

```
struct temp s;
struct temp{};
main(){}
```

None of the mentioned

Q10. State the complexity of algorithm given below

```
int function(vector arr)
int len=arr.length();
if(len==0)
return;
temp=arr[len-1];
arr.pop_back();
return temp;
```

o(n)

O(logn)

O(1)

O(n logn)

Q11. What is the location of parent node for any arbitrary node i?

(i/2) position

(i+1)/ position

floor(i/2) position

ceil(i/2) position

Q12. If row-major order is used, how is the following matrix stored in memory?

```
a b c
d e f
g h i
```

ihgfedcba

abcdefghi

cfibehadg

adgbehcfi

Q13. Consider the following dynamic programming implementation of the Knapsack problem:

```
#include
int find_max(int a, int b)
{
if(a > b)
return a;
return b;
}
int knapsack(int W, int *wt, int *val,int n)
{
int ans[n + 1][W + 1];
int itm,w;
```

```
for(itm = 0; itm <= n; itm++)
ans[itm][0] = 0;
for(w = 0;w <= W; w++)
ans[0][w] = 0;
for(itm = 1; itm <= n; itm++)
{
for(w = 1; w <= W; w++)
{
if(wt[itm - 1] <= w)
ans[itm][w] = _____;
else
ans[itm][w] = ans[itm - 1][w];
}
}
return ans[n][W];
}
int main()
{
int w[] = {10,20,30}, v[] = {60, 100, 120}, W = 50;
int ans = knapsack(W, w, v, 3);
printf("%d",ans);
return 0;
}
```

Which of the following lines completes the above code?

- find_max(ans[itm – 1][w – wt[itm – 1]] + val[itm – 1], ans[itm – 1][w])
- find_max(ans[itm – 1][w – wt[itm – 1]], ans[itm – 1][w])
- ans[itm][w] = ans[itm – 1][w];
- none of the mentioned

Q14. Consider the following code:

```
#include
int get_min(int a, int b)
{
if(a<b)< div="">
return a;
return b;
}
int minimum_time_required(int reach[][3],int spent[][4], int *entry, int *exit, int n)
{
int t1[n], t2[n],i;
t1[0] = entry[0] + spent[0][0];
t2[0] = entry[1] + spent[1][0];
for(i = 1; i < n; i++)
{
t1[i] = get_min(t1[i-1]+spent[0][i], t2[i-1]+reach[1][i-1]+spent[0][i]);
_________;
}
return get_min(t1[n-1]+exit[0], t2[n-1]+exit[1]);
}
```

Which of the following lines should be inserted to complete the above code?

- t2[i] = get_min(t2[i-1]+spent[1][i], t1[i-1]+reach[0][i-1]+spent[1][i])
- t2[i] = get_min(t2[i-1]+spent[1][i], t1[i-1]+spent[1][i])
- t2[i] = get_min(t2[i-1]+spent[1][i], t1[i-1]+reach[0][i-1])
- none of the mentioned

Q15. What would be the asymptotic time complexity to find an element in the linked list?

O(1)

O(n)

O(n2)

None of the mentioned

Q16. What is wrong with the following code of insertion in fibonacci heap. Choose the correct option

```
FIB-INSERT(H, x)
degree[x]= 0
p[x]= NIL
child[x] =NIL
left[x] =x
right[x] =x
mark[x] =FALSE
concatenate the root list containing x with root list H
if min[H] = NIL or key[x] > key[min[H]]
then min[H]= x
n[H]= n[H] + 1
```

Line -11

Line -3

Line 9

Line 7

Q17. What is the output of the following code?

```
#include
int cat_number(int n)
{
int i,j,arr[n],k;
arr[0] = 1;
for(i = 1; i < n; i++)
{
arr[i] = 0;
for(j = 0,k = i - 1; j < i; j++,k--)
arr[i] += arr[j] * arr[k];
}
return arr[n-1];
}
int main()
{
int ans, n = 8;
ans = cat_number(n);
printf("%d\n",ans);
return 0;
}
```

42

132

429

1430

Q18. Consider the following recursive implementation used to convert a decimal number to its binary equivalent:

```
#include
int arr[31], len = 0;
void recursive_dec_to_bin(int n)
{
  if(n == 0 && len == 0)
  {
    arr[len++] = 0;
    return;
  }
  if(n == 0)
    return;
   _________;
  recursive_dec_to_bin(n/2);
}
int main()
{
  int n = 100,i;
  recursive_dec_to_bin(n);
  for(i=len-1; i>=0; i--)
  printf("%d",arr[i]);
  return 0;
}
```

Which of the following lines should be inserted to complete the above code?

- arr[len] = n
- arr[len] = n % 2
- arr[len++] = n % 2
- arr[len++] = n

Q19. The following lines talks about deleting a node in a binary tree.(the tree property must not be violated after deletion) i) from root search for the node to be deleted ii)____ _____ iii) delete the node at _____ what must be statement ii) and fill up statement iii)

- ii)-find random node,replace with node to be deleted. iii)- delete the node
- ii)-find node to be deleted. iii)- delete the node at found location
- ii)-find deepest node,replace with node to be deleted. iii)- delete a node
- ii)-find deepest node,replace with node to be deleted. iii)- delete the deepest node

Q20. What is the time complexity of level order traversal?

- O(1)
- O(n)
- O(logn)
- O(nlogn)

Answer Key & Solution

Section 1 - Quantitative Aptitude

Q1 None of the above

Solution

No Solution

Q2 direction

Solution

No Solution

Q3 7.5m/s

Solution

No Solution

Q4 12000m

Solution

No Solution

Q5 29

Solution

No Solution

Q6 Rs 61.50

Solution

No Solution

Q7 11

Solution

No Solution

Q8 18

Solution

No Solution

Q9

None of these

Solution

No Solution

Q10

25

Solution

No Solution

Q11

44

Solution

No Solution

Q12

1/9

Solution

No Solution

Q13

1/3

Solution

No Solution

Q14

9:21

Solution

No Solution

Q15

26

Solution

No Solution

Q16

29

Solution

No Solution

Q17

19

Solution

No Solution

Q18

north-East

Solution

No Solution

Q19

225

Solution

No Solution

Q20

19

Solution

No Solution

Section 2 - Verbal

Q1

d. Tailor

Solution

No Solution

Q2

d.2

Solution

No Solution

Q3

a.Arrogant

Solution

No Solution

Q4

a.Only assumption I is impicit

Solution

No Solution

Q5

b.occasionally

Solution

No Solution

Q6

a.committee

Solution

No Solution

Q7

b.Pilferage

Solution

No Solution

Q8

She said, "What a miserable plight it is."

Solution

No Solution

Q9

d.3

Solution

No Solution

Q10

b.cursory

Solution

No Solution

Q11

d.none of these

Solution

No Solution

Q12

b.false statements

Solution

No Solution

Q13

b. he is going or I am

Solution

No Solution

Q14

a.true statement

Solution

No Solution

Q15

d.sleep

Solution

No Solution

Q16

d.3

Solution

No Solution

Q17

d.LADY

Solution

No Solution

Q18

a.eradicated

Solution

No Solution

Q19

c.Kleptomania

Solution

No Solution

Q20

c.avoid

Solution

No Solution

Section 3 - Reasoning

Q1

b.B

Solution

No Solution

Q2

d.direction

Solution

No Solution

Q3

a.BROTHER

Solution

No Solution

Q4

b.3B,5A,6D

Solution

No Solution

Q5

b.B

Solution

No Solution

Q6

b. 29

Solution

No Solution

Q7

a.1/3

Solution

No Solution

Q8

d.D

Solution

No Solution

Q9

b.26

Solution

No Solution

Q10

d.D

Solution

No Solution

Q11

d.D

Solution

No Solution

Q12

c.C

Solution

No Solution

Q13

d.D

Solution

No Solution

Q14

b.29

Solution

No Solution

Q15

a.A

Solution

No Solution

Q16

C

Solution

No Solution

Q17

a.28

Solution

No Solution

Q18

d.D

Solution

No Solution

Q19

b. 100

Solution

No Solution

Q20

d.D

Solution

No Solution

Section 4 - Coding

Q1

-1 1

Solution

No Solution

Q2

Compile time error

Solution

No Solution

Q3

float

Solution

No Solution

Q4

Same address is printed.

Solution

No Solution

Q5

7

Solution

No Solution

Q6

None of the mentioned

Solution

No Solution

Q7

double

Solution

No Solution

Q8

c = 2

Solution

No Solution

Q9

None of the mentioned

Solution

No Solution

Q10

O(1)

Solution

No Solution

Q11

floor(i/2) position

Solution

No Solution

Q12

abcdefghi

Solution

No Solution

Q13

find_max(ans[itm – 1][w – wt[itm – 1]] + val[itm – 1], ans[itm – 1][w])

Solution

No Solution

Q14

t2[i] = get_min(t2[i-1]+spent[1][i], t1[i-1]+reach[0][i-1]+spent[1][i])

Solution

No Solution

Q15

O(n)

Solution

No Solution

Q16

Line 9

Solution

No Solution

Q17

429

Solution

No Solution

Q18

arr[len++] = n % 2

Solution

No Solution

Q19

ii)-find deepest node,replace with node to be deleted. iii)- delete the deepest node

Solution

No Solution

Q20

O(n)

Solution

No Solution