C Programming





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General Instructions

- ▶ This question paper has 1 section and a total of 10 questions.
- Its is a programming test with 10 questions for 40 minutes.
- There are no compilation errors, ignore missing things like, #include, {, }, etc.,

```
#include <stdio.h>
int main()
      int a, b, number, result, i;
      a = 6;
      b = 14;
      number = (a >= b) ? a : b;
      for (i = number;; i++)
             if (i % a == 0 && i % b == 0)
                    result = i;
                    break;
      printf("%d", result);
      return 0;
```

```
#include <stdio.h>
int main()
      char *x = "Zoho123Corp45";
      int result = 0, i;
      for (i = 0; x[i] != '\0'; i++)
             if (x[i] >= 48 \&\& x[i] <= 57)
                    result = result + (x[i] - '0');
      printf("%d", result);
      return 0;
15
```

```
#include <stdio.h>
int i = 0;
int fun(int a)
       i++;
       if (a > 99)
               return a - 12;
       return fun(fun(a + 25));
int main()
       printf("%d ", fun(69));
       printf("%d", i);
       return 0;
96 7
```

```
#include <stdio.h>
int compare(int a, int b, int c)
       if (a - b > 0 && a - c > 0)
              return c;
       else if (b - c > 0)
              return a;
       else
               return b;
int main()
       printf("%d", compare(compare(88, 89, 91), compare(90, 41, 17), compare(75, 100, 96)));
       return 0;
75
```

```
#include <stdio.h>
int main()
      int n, x, count, i;
      n = 68;
      for (x = 1; x <= n; x++)
             if (n \% x == 0)
                    for (count = 0, i = 1; i <= x; i++)
                           if (x % i == 0)
                                  count++;
                    if (count == 2)
                           printf("%d ", x);
      return 0;
```

2 17

```
#include <stdio.h>
int main()
      int n = 4, i, j, sum = 0;
      int a[][4] = { { 12, 15, 16, 20 }, { 4, 10, 2, 21 },
                    { 33, 14, 23, 9 }, { 22, 43, 54, 6 } };
      for (i = 0; i < n; i++) {
             for (j = 0; j < n; j++)
                    if (i == j)
                          sum = sum + a[i][j];
      printf("%d", sum);
      return 0;
51
```

```
#include <stdio.h>
int main()
       int i = 0, j, k, n = 4;
       while (i++ < n)
               if (i % 2 == 1)
                      k = 1;
               else
                      k = 0;
               for (j = 1; j <= i; j++, k += 1)
                      printf("%d ", k);
       return 0;
1 0 1 1 2 3 0 1 2 3
```

```
#include <stdio.h>
int main()
        int sum = 0, maxsum = 0, i, n = 6;
        int a[] = { 2, -2, -1, 3, 4, 2 };
        for (i = 0; i < n; i++)
                 if (i == 0 || a[i] < 0 || a[i] < a[i - 1])</pre>
                         if (sum > maxsum)
                                  maxsum = sum;
                         sum = (a[i] > 0) ? a[i] : 0;
                 else
                         sum += a[i];
        if (sum > maxsum)
                 maxsum = sum;
        printf("%d", maxsum);
        return 0;
```

```
#include <stdio.h>
int main()
       int c[] = { 2, 3, 4, 6, 5 };
       int j, *p = c, *q = c;
       for (j = 0; j < 5; j++)
              printf("%d ", *c);
               ++q;
       for (j = 0; j < 5; j++)
               printf("%d ", *p);
               ++p;
       return 0;
2 2 2 2 2 2 3 4 6 5
```

```
#include <stdio.h>
int main()
      int n = 12, res = 1;
      while (n > 3)
            n -= 3;
             res *= 3;
      printf("%d", n * res);
      return 0;
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```



Thank You



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