# 大O表示法练习

请用大O表示法表示算法的时间复杂度:

算法1：

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| --- |
| void Algorithm01(){  int sum = 0, n = 100;  sum = (1 + n)\*n / 2;  printf("%d\n",sum);  } |

算法2：

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| --- |
| void Algorithm02(){  int sum = 0, n = 100;  sum = (1 + n)\*n / 2;  sum = (1 + n)\*n / 2;  sum = (1 + n)\*n / 2;  sum = (1 + n)\*n / 2;  sum = (1 + n)\*n / 2;  sum = (1 + n)\*n / 2;  sum = (1 + n)\*n / 2;  sum = (1 + n)\*n / 2;  sum = (1 + n)\*n / 2;  sum = (1 + n)\*n / 2;  printf("%d\n", sum);  } |

算法3：

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| --- |
| void Algorithm03(int n){  int i;  for (i = 0; i < n;i++){  printf("%d\n",i);  }  } |

算法4：

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| --- |
| void Algorithm04(int n){    int count = 1;  while (count < n ){  count = count \* 2;  }  } |

算法5：

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| --- |
| void Algorithm05(int n){    int i, j;  for (i = 0; i < n;i++){  for (j = 0; j < n;j++){  printf("%d\n",i+j);  }  }  } |

算法6：

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| --- |
| void Algorithm06(int n){  int i, j;  for (i = 0; i < n; i++){  for (j = i; j < n; j++){  printf("%d\n", i + j);  }  }  } |

算法7：

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| --- |
| void function07(){  printf("hello world!\n");  }  void Algorithm07(int n){  int i, j;  for (i = 0; i < n; i++){  function07();  }  } |

算法8：

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| --- |
| void function08(int n){  int i;  for (i = 0; i < n;i++){  printf("hello world!");  }  }  void Algorithm08(int n){  n++;  function08(n);  int i, j;  for (i = 0; i < n;i++){  function08(n);  }  for (i = 0; i < n;i++){  for (j = i; j < n;j++){  printf("hello world!\n");  }  }  } |