## British Informatics Olympiad

## 2004 British Informatics Olympiad Script Cover Sheet



Please use this sheet, with reference to the marks scheme, to assist you with marking each student's script. This cover sheet should accompany all scripts submitted to the BIO organisers. As it summarises the solutions to many questions, do not distribute or show this sheet to any contestant before 28 March 2004.

Name of student:	Age:	,	Year in school:	management and ones.
1(a) [2] [2] [2]	20 7 18 3 13 20 8 11 8	2] [2]	20 14 69 14 1 1 1 1 [2] 15 5 2006 21 12 20	14 1 14 14 14 [2] [2] 12 14 7 2026
1(a) [2] [2] [1] 13 2	o correct dates: 1(c 20 7 17 14 [1] 20 8 16 9 [2]	2,880,000	Totals for Q1	1(a) 2 4 [24] 1(b) 2 [2] 1(c) 3 [3]
Test 1: Test 2	•			<b>2</b> (b)
Input: 6 n 8 3334  2(a) [2] [2] [1]	[2] [2]	n r		00**00- **00**- 00**00- 00*0000 **00***
Output: Player* 1 winso	*		Player 1 wins	See mark scheme for 2(c)
Test 3:	Test 4:			<b>2</b> ( <b>d</b> ) 60691
Input:  5 34343  2(a) [2] [2] [2] [2]		**00*00 Di	[1] caw Q2 Totals	2(a) 76 [26] 2(b) 7 [2]
Output: -* ***00**0*0 ***0**	*	**00*00 00**0** **0***0 000*00*		2(c) 5 [6] 2(d) [3]
Input:     3(a)     Output:     Input:     3(a)     Output:       dog     1     4     eeeeee     1     1       e     1     1     ss     1     3       et     1     0     1     1	out: Input: cyclops wireless olympiad	3(a) Output   12   12     [2]   1255	: Input:	Output: 91674
See mark scheme for alternative solution [2] 13 and [3] 170 3(c)	invisible utions for 3(a) and 3( [3] 124	[2] 27876 c)	Totals for Q3	3(a) 26 [26] 3(b) 5 [5] 3(c) 0 [3]
Deduct [2] marks for every part (a) program name clearly marked on the script, or where the student to compile the program for languages that require	has failed	tal question 1	Total question 2	S (34)
Please use the back of this sheet for any further comments  Marked by			Total marl for BIO 2004	