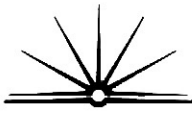


(23) (a) A custom designed solution may be better, in that it would be designed specifically for the companies needs. However it would take longer to get and be more costly.

A customised off-the-shelf package would still work, but may not be as appropriate as a fully custom designed solution. However it would most probably be a lot cheaper.

The Business would have to evaluate its needs.



⑥① Hardware developments that have made Open Source Software development possible would include mainly the internet, broadband internet specifically, as large files would have to be shared.

Software developments that allowed open source development possible would include programs like 'Peer to Peer' networking that 'Kazaa' uses, also programs similar to 'Remote Access' that allow other users to help and fix problems on other computers. Email and chat programs would also be included as they allow developers and users to converse.

(11) As a result of open-source software development, project management issues would ~~be~~ probably arise.

Having developers even in one office, usually requires project management, so having developers all over the world would present a problem.

Someone would have to organise people to develop different parts of a desired system, as well as keeping everyone on time, as some parts of the software might depend on the completion of others.

Someone would also have to check on what stages of development were being completed, and allocating work to different developers

(C) REG 1 REG 2 REG 3 Mem 6 = E (14)

30	A1	14 or E0
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LOAD (REG 1, Mem 5)

LOAD (REG 2, Mem 6)

ADD (REG 3, REG 1, REG 2)

(i) Mem 6 is being used as an accumulator as it's old value was changed to a new value.

(ii) Mem 6 in HEXIDECIMAL is 'E₁₆'. Because
Hexadecimal = 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F.
Decimal 14₁₀ = Hexadecimal E₁₆

(iii) The decimal value in Reg 3 is
14₁₀. A1 = 11 and 30 = 3
11 + 3 = 14

(N) LOAD (REG 1, Mem 5)
ADD (REG 3, REG 1, REG 1)
ADD (REG 3, REG 1, REG 2)
STORE (REG 3, Mem 7)
STOP