Plenary worksheet answers

Pseudocode quiz

Look at the following program descriptions and see if you can match the correct program to the pseudocode.

| Program A **(answer - matches with 2)** | Program B **(answer - matches with 1)** |
| --- | --- |
| A program which asks the user what they want for lunch 6 times or until they say ‘sushi’, whichever is sooner. To any other answer the program says ‘try again’. | A program which asks the user what they want for lunch and keeps asking until they say ‘sushi’, at which point the program says ‘good job, that’s all we’ve got’. If they don’t say ‘sushi’ it asks them to try again. |
| Program C **(answer - matches with 4)** | Program D **(answer - matches with 3)** |
| A program that asks the user what they want for lunch. If they say ‘sushi’ the program says ‘good job, that’s all we’ve got’. If the user says anything other than ‘sushi’ the program says ‘never mind’. | A program that asks the user what they want for lunch. If they say sushi the program says “sorry, no sushi here, try again”. If the user says anything other than sushi the program says “Phew, we’re all out of sushi, bon appetit” |

| Pseudocode 1 | Pseudocode 2 |
| --- | --- |
| REPEAT  OUTPUT ‘What do you fancy for lunch?’  INPUT user inputs what they would like for lunch  STORE the user’s input in the answer variable  IF answer = ‘sushi’ THEN  OUTPUT ‘Good job, that’s all we’ve got!’  ELSE  OUTPUT ‘Try again!’  UNTIL answer = ‘sushi’ | FOR (6)  OUTPUT ‘What do you fancy for lunch?’  INPUT user inputs what they would like for lunch  STORE the user’s input in the answer variable  IF answer = ‘sushi’ THEN  OUTPUT ‘Good job, that’s all we’ve got!’  ELSE  OUTPUT ‘Try again!’  END |
| Pseudocode 3 | Pseudocode 4 |
| REPEAT  OUTPUT ‘What do you fancy for lunch?’  INPUT user inputs what they would like for lunch  STORE the user’s input in the answer variable  IF answer is not ‘sushi’ THEN  OUTPUT ‘Phew, we’re all out of sushi, bon appetit’  ELSE  OUTPUT ‘Sorry, no sushi’  UNTIL answer is not ‘sushi’ | OUTPUT ‘What do you fancy for lunch?’  INPUT user inputs what they would like for lunch  STORE the user’s input in the answer variable  IF answer = ‘sushi’ THEN  OUTPUT ‘Good job, that’s all we’ve got!’  ELSE  OUTPUT ‘Never mind!’ |

**Extension 1:**

Can you write the pseudocode for a program that does the following:

Ask the user what they want for lunch and keep asking until they say ‘baked potato and beans’. If they say ‘baked potato and beans’ then say ‘good job that’s all we’ve got’, but if they say ‘beans on toast’ say ‘sorry, the toaster is broken, try again’ if they say anything else say ‘try again’.

Answer:



REPEAT

OUTPUT ‘What do you fancy for lunch?’

INPUT user inputs what they would like for lunch

STORE the user’s input in the answer variable

IF answer = ‘baked potato and beans’ THEN

OUTPUT ‘Good job, that’s all we’ve got!’

ELSE IF answer = ‘beans on toast’ THEN

OUTPUT ‘Sorry, the toaster is broken but the microwave is working, try again’

ELSE

OUTPUT ‘Try again’’

UNTIL answer = ‘baked potato and beans’

**Extension 2:**

Write the English language version of a program of your choice, followed by the pseudocode version of that program.