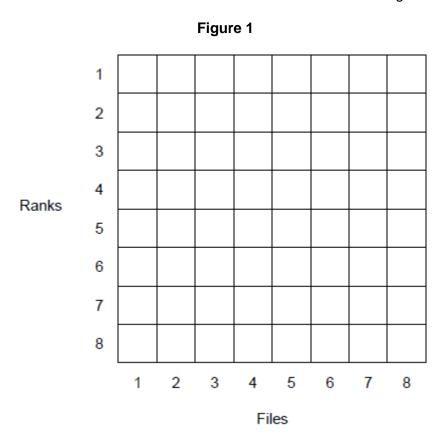
## 1

## **CAPTURE THE SARRUM**

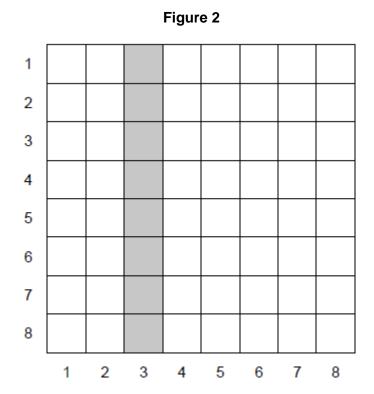
The **Skeleton Program** in this Preliminary Material is for the board game CAPTURE THE SARRUM.

CAPTURE THE SARRUM is an ancient variant of the game of chess. It is a two-player game – one player has the white pieces and the other player has the black pieces. Each player takes it in turn to move one of their pieces; different pieces have different rules that determine how they can move. To win the game, a player needs to take (capture) the opponent's sarrum. The player using the white pieces always moves first.

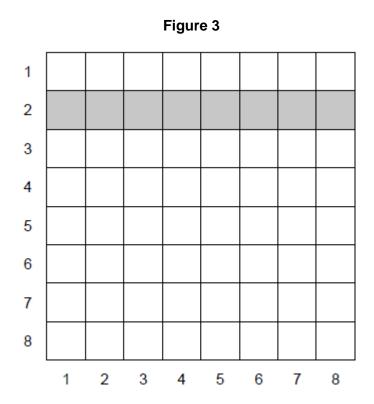
**Figure 1** shows an empty board. The board consists of an 8x8 grid of squares. The rows are called **ranks** and the columns are called **files**. Each file is labelled with a number between one and eight and each rank is also labelled with a number between one and eight.



In Figure 2 the third file has been shaded.



In Figure 3 the second rank has been shaded.



There are six different types of piece in the game; the rules for moving each of the pieces are described below in the table. If a piece moves into a square containing one of the opponent's pieces, then that piece is taken (it is removed from the board). No piece can move into a square containing another piece of the same colour.

Piece name	How the piece moves
Sarrum (king)	A sarrum can move one square at a time in any direction.
Marzaz pani (royal attendant)	A marzaz pani can move one square at a time either vertically or horizontally – it cannot make diagonal moves.
Nabu (seer)	A nabu can move one square at a time along a diagonal – it cannot make horizontal or vertical moves.
Etlu (warrior)	An etlu can move two squares at a time in either a vertical or horizontal line – it must move exactly two squares and it cannot make diagonal moves. An etlu can jump over other pieces.
Gisgigir (chariot)	A gisgigir can move any number of squares at a time in either a vertical or horizontal line – it cannot make diagonal moves. A gisgigir cannot jump over other pieces.
Redum (soldier)	A redum can move forward one square at a time. If the square directly in front of a redum is empty then the redum can move into that square.
	If a square that is one rank in front of and directly to the left or right of a redum contains an opponent's piece, then the redum can move into that square and will capture the piece.
	If a redum reaches the back rank (the first rank for a white redum, the eighth rank for a black redum), it is promoted (changes) into a marzaz pani.

Historical records for the game of CAPTURE THE SARRUM are incomplete – some records indicate that there may have been another type of piece called a kashshaptu (witch) but it is not known how this piece was used in the game.

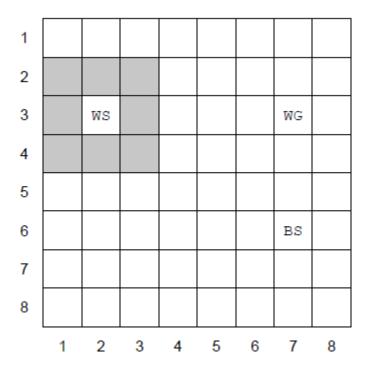
**Figure 4** shows the position of the pieces at the start of a game of CAPTURE THE SARRUM. Each piece has been represented using the first letter of its name, eg s = sarrum. A partial start its letter of its name, eg <math>s = sarrum. A partial start its letter of its name, eg <math>partial start its letter of its name, eg partial start its letter of its name, eg <math>partial start its letter of its name, eg partial star

Figure 4

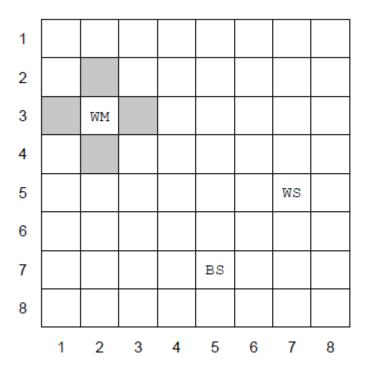
1	BG	BE	BN	BM	BS	BN	BE	BG
2	BR							
3								
4								
5								
6								
7	WR							
8	WG	WE	WN	WM	WS	WN	WE	WG
	1	2	3	4	5	6	7	8

In Figure 5 shaded squares in each diagram show the legal moves that a piece can make.





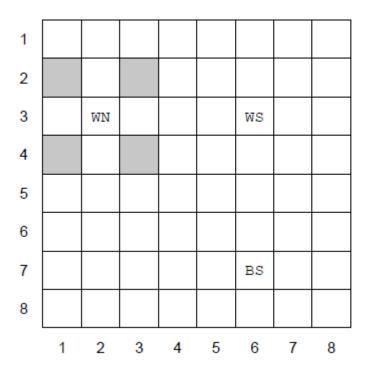
White's sarrum can move one square in any direction.



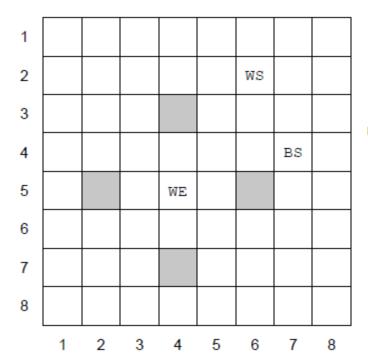
White's marzaz pani **can** move one square vertically or horizontally.

1								
2								
3		WM	WS					
4						BS		
5								
6								
7								
8								
	1	2	3	4	5	6	7	8

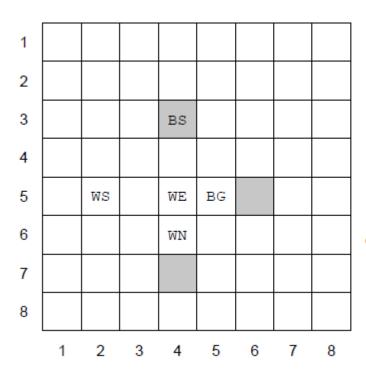
White's marzaz pani **cannot** move to a square containing another white piece.



White's nabu **can** move one square in a diagonal direction.



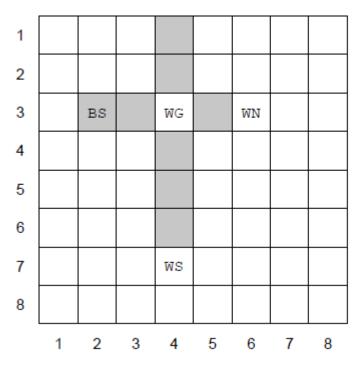
White's etlu can move two squares in a vertical or horizontal direction.



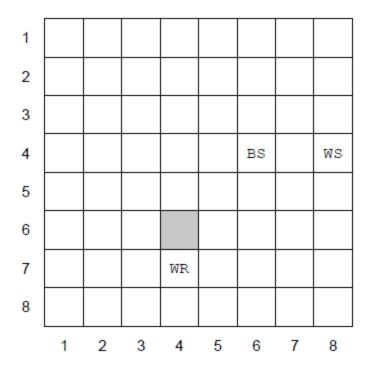
White's etlu
cannot move into
the same square
as another white
piece but can
move into the
same square as
a black piece (the
black piece will
be captured). An
etlu can jump over
other pieces of
either colour.

1								
2								
3				WG				
4								
5						WS		
6								
7						BS		
8								
	1	2	3	4	5	6	7	8

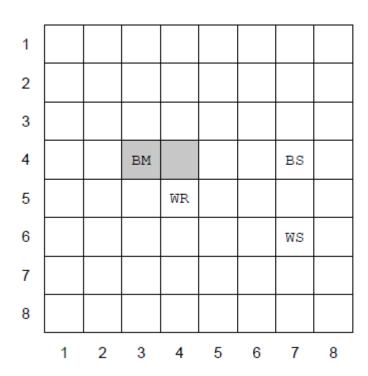
White's gisgigir
can move any
number of
squares in a
straight line –
either horizontally
or vertically.



White's gisgigir cannot move to a square occupied by another white piece and it cannot jump over other pieces.



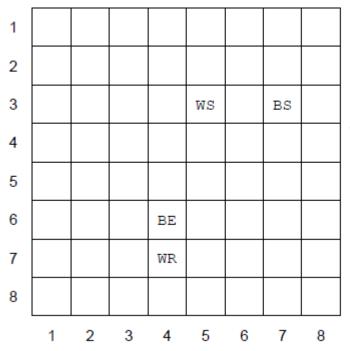
White's redum can move one square forward, it cannot move diagonally forward, unless it is capturing a black piece.



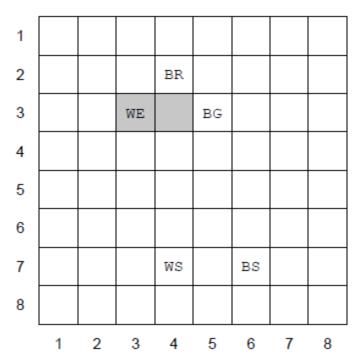
White's redum
can either move
one square
forward or it can
move diagonally
forward one
square to capture
the black marzaz
pani.

1								
2								
3								
4			вм	BN	BS			
5				WR				
6								
7						WS		
8								
	1	2	3	4	5	6	7	8

White's redum
cannot move
to the square
immediately in
front of it, as this
is occupied by
another piece;
it can move
diagonally forward
one square to
capture either
the black marzaz
pani or the black
sarrum.



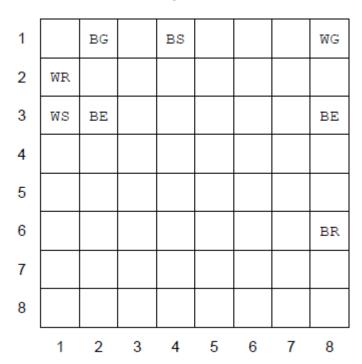
White's redum has no legal moves.



Black's redum
can either move
one square
forward or it can
capture the white
etlu – it cannot
move to the
square containing
the black gisgigir.

When the **Skeleton Program** is run, the user is given the option to play, using a sample game. If they choose to play the sample game, then the initial board position will be as shown in **Figure 6**, otherwise the initial board position will be as shown in **Figure 4**.

Figure 6



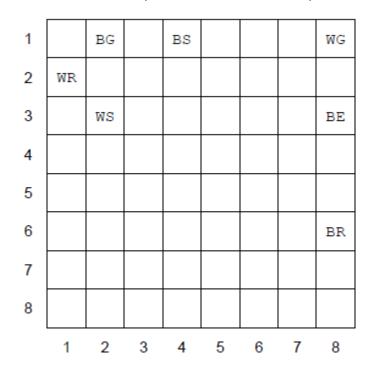
When the sample game starts, it is White's move.

To enter a move, the player types in the grid reference of the square containing the piece that they would like to move (the start square) and then the grid reference of the square that they would like to move the selected piece to (the finish square). A grid reference is the number of the file followed by the number of the rank, eg in **Figure 6** the grid reference 41 indicates the position of Black's sarrum. If the move entered is a legal move, then the board will be updated and it will now be the other player's turn.

**Figure 7**, **Figure 8** and **Figure 9** show three examples of White entering a move and the positions after these moves, from the start position shown in **Figure 6**.

Figure 7

White enters a start square of 13 and a finish square of 23.



White's sarrum has captured Black's etlu.

Figure 8

White enters a start square of 81 and a finish square of 41.

1		BG		WG				
2	WR							
3	WS	BE						BE
4								
5								
6								BR
7								
8								
	1	2	3	4	5	6	7	8

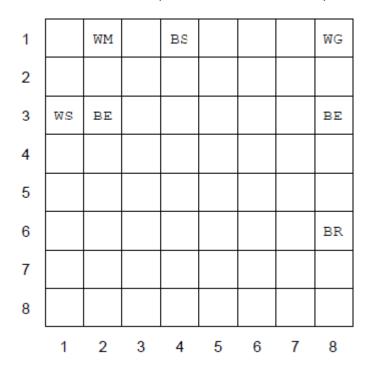
White's gisgigir has captured Black's sarrum and wins the game.

Figure 9

White enters a start square of 12 and a finish square of 13.

A message saying "That is not a legal move – please try again" is displayed.

White then enters a start square of 12 and a finish square of 21.



White's redum has captured Black's gisgigir and White's redum has reached the first rank and so is promoted to a marzaz pani.

The game continues until one of the players captures the opponent's sarrum. The user is then given the option to play another game – if they don't choose to play another game, then this will exit the **Skeleton Program.**